

Mathematical Reviews

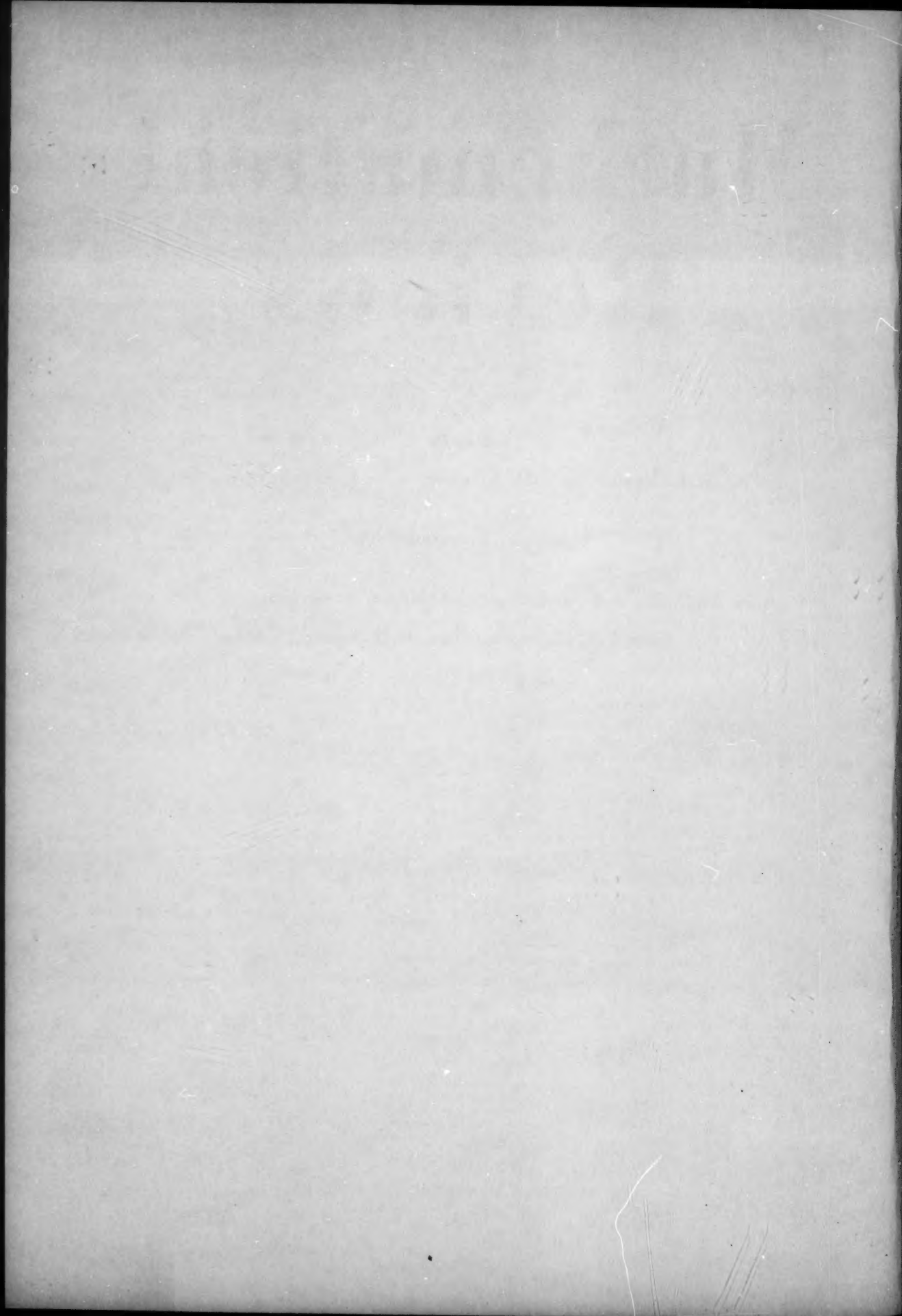
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- Theoretical applications of the methods of mathematical logic, I 7801: *Theoretical applications of the methods of mathematical logic. I. (Russian) See also Slinenko, A. O., #12489; Kosovskij, N. K., #12490; Matijević, Ju. V., #12503 and Freidzon, R. I., #14640
- Theoretical and applied mechanics (Thirteenth Internat. Congr., 1972) See Vekua, I. N., #14706
- Theoretical and applied mechanics, Vol. 22 See Hara, Kei, #2740 and Ohta, Mitsuo; Yamaguchi, Shizuma; Takeyama, Yoshio; Hiromitsu, Seijro; Okita, Tsuyoshi, #5125
- Theoretical physics 3899: *Hyperfunctions and theoretical physics.
- Théorie des matroïdes (Rencontre Franco-Britannique, Brest, 1970) See Fournier, J. C., #12575
- Théorie du potentiel et analyse harmonique See Harzallah, K., #1296; Takahashi, Reiji, #1298; Hirsch, Francis, #3959; Hirsch, Francis; Roth, Jean-Pierre, #3960; Herz, Carl, #6966; Chebli, Houcine, #10745 and Biedtner, Jürgen, #13259
- Théories de l'information See Tounissoux, Daniel, #2780; Deza, Mikhail, #5146; Langrand, Claude, #5178; Nguyen-Trung Hung, #5180; Petolla, Sylvette; Picard, Claude-François, #5181; Sallantin, Jean, #5182; Kampé de Fériet, Joseph, #7722; Hengartner, W.; Theodorescu, R., #9147 and Losfeld, Joseph, #9965
- The theory of arithmetic functions (Proc. Conf., Western Michigan Univ., Kalamazoo, Mich., 1971) See Galambos, Janos, #3104
- Theory of continuous automatic systems and problems of identification 12360a: *Proceedings of the Third International Congress of the International Federation of Automatic Control (IFAC) (London, 20-25 June 1966). (Russian)
- Theory of finite automata and its applications, No. 1 See Denisenko, O. S.; Skljarević, A. N., #15244
- Theory of finite automata and its applications, No. 2 See Strandhøj, I. È.; Strazdinja, D. P., #3018; Tolmačeva, A. Ju., #14648 and Szardnig, J.; Kalnig, J., #15241
- Theory of functions 13222: *Metric questions of the theory of functions and mappings. No. V. (Russian)
- Theory of functions and its applications (Collection of articles dedicated to S. M. Nikol'skij on the occasion of his seventieth birthday) 13518: *Theory of functions and its applications. (Russian)
- Theory of functions of a complex variable and boundary value problems, No. 1 See Merlin, A. V., #6312; Cibrikova, L. L., #6317; Kovšov, A. I., #8514 and Pokazeev, V. I.; Merlin, A. V., #10892
- Theory and methods of construction of multivariable control systems See Meerov, M. V.; Litvak, B. L., #15016; Klubnikin, P. F., #15056; Meerov, M. V., #15058; Perel'muter, V. M., #15062; Merabishvili, P. F., #15065; Hanmamedov, O. K., #15071 and Mihnevich, G. V.; Flakov, V. M., #15072
- Theory of nonlinear operators (Proc. Summer School, Babylon, Czechoslovakia, 1971) 8897: *Theory of nonlinear operators.
- Theory of nonlinear operators (Summer School, 1972) See Kačur, J., #1134; Fučík, Svatopluk; Kučera, Milan; Souček, Jiří; Souček, Vladimír, #1494; Zacharias, Klaus, #1520; Gajewski, Herbert, #6514 and Gröger, Konrad, #6515
- Theory of operators and operator algebras See Vasilescu, F.-H., #1361; Arsene, Gr., #6443 and Suciu, Ion, #6453
- Theory of optimal processes See Gindes, V. B., #4008
- Theory of ordered sets and general algebra (Abstracts, Summer Session, Harmonia, 1970) 10171: *{Lectures on the theory of ordered sets and general algebra}.
- Theory of oscillations, applied mathematics and cybernetics 15048: *Theory of oscillations, applied mathematics and cybernetics. (Russian)
- Theory of random processes, No. 1 See Bondarev, B. V., #1961; Gatun, A. P., #2738; Taraskin, A. F., #4382; Brodskij, Ja. S., #4387; Baklan, V. V., #11625; Portenko, M. I.; Prokopenko, L. M., #11669 and Lin'kov, Ju. N., #15193
- Theory of random processes, No. 2 See Barhatova, I. V., #1942; Dorogovcev, A. Ja., #2210; Rodionova, V. S., #4602; Brašnin, M. I., #10987; Portenko, M. I., #11659; Gilman, I. I., #14208; Hametova, Z. Ja.; Čani, A. S., #14210; Sinjavskij, V. F., #14243 and Lin'kov, Ju. N., #15194
- Theory of random processes, No. 3 See Portenko, M. I., #8634; Gilman, I. I., #9188; Mehno, S. Ja., #9207; Pisanec, S. I., #9234; Sytja, G. N., #9241; Šurenkov, V. M., #9247; Sinjavskij, V. F., #11645; Čekanovskij, E. R.; Janover, V. G., #11652; Lin'kov, Ju. N., #11887; Ivanov, A. V., #11891; Ševljakov, A. Ju., #12396 and #12397; Gadiliev, V. G., #14180; Ibrahimilov, I. Š., #14385; Lipskaja, V. A., #14656 and Gatun, A. P., #15126

- Theory of schemes See Laborda González, M. Jesús, #490 and #491
- Theory of sets and topology (in honour of Felix Hausdorff, 1868-1942) See Kerstan, Johannes, #6738 and Klaus, Dieter, #10029
- Topics in analysis (Colloq. Math. Anal., Jyväskylä, 1970) See Tammi, Olli, #8369; Bers, Lipman, #8411; Richards, Ian, #8413; Fuchs, W. H. J., #8420; Collingwood, E. F., #8423; Ganelius, Tord; Westlund, Stig, #8688; Weston, J. D., #8812; Easen, Matts, #10651; Marden, Morris, #10653; Kaplan, Wilfred, #10847; Haack, Wolfgang, #10891; Heins, Albert E., #10910; Jarchow, Hans, #11072; Beckenbach, E. F., #11296; Hermann, Peter, #11560; Frank, Evelyn, #11931; Nikki, Raimo, #13221 and Lohwater, A. J., #13234
- Topics in numerical analysis (Proc. Roy. Irish Acad. Conf., Dublin, 1972) See Douglas, Jim, Jr.; Dupont, Todd, #2295; Schechter, E., #2307 and Noble, Ben., #4700
- Topics in topology (Colloq., Keszthely, 1972) See Juhász, I., #1705; Morita, K., #1714; Smirnov, Ju. M., #1721; Császár, K., #1731; Rudin, M. E., #1735; Gordh, G. R., Jr., #1764; Jones, F. B., #1769; Szigeti, F., #1864; Fischer, H. R., #1865; Moszyńska, M., #4156; Alô, Richard A., #6713; Smith, James C., Jr., #6724; Hamburger, P., #6730; Hilton, P., #6792; Domlaty, R. Z., #9005b; Hulek, M., #9029; Čoĝoŝvili, G. S., #9049 and Chapman, T. A., #9069
- TOPO 72—general topology and its applications See Alô, Richard A.; de Korvin, André, #1379; Hong, Sung Sa., #1708; Strecker, G. E., #1709; Rajagopalan, M.; Soundararajan, T.; Jakel, D., #1716; D'Aristotle, Anthony J., #1717; Guthrie, J. A.; Henry, Michael, #1747; Burke, Dennis K., #1755; French, James Austin, #1778; Nel, L. D., #4136; Vaughan, J. E., #4170; Hechler, Stephen H., #5314; Reynolds, George D., #5705; Martin, Harold W., #6700; Singh, Sukhjot, #6755; Nishiura, Togo, #6759; Tan, H. P., #6763; Sennott, L. L., #9025; Chapman, T. A., #9068; Wyler, Oswald, #11399; Nagata, Jun-iti, #11410; Mrówka, S.; Rajagopalan, M.; Soundararajan, T., #11430; Wicke, H. H.; Worrell, J. M., Jr., #11437; Williams, Scott W., #11449 and Sivic, Frank, #13973
- Topoi 10016: *Model theory and topology
- Topological dynamics 6880: *Recent advances in topological dynamics. 13196: *Conference on Ergodic Theory and Topological Dynamics
- Topological structures (Proc. Sympos., 1973) See de Groot, J., #9012 and Bruijning, J., #9036
- Topology and its applications (Proc. Conf., Memorial Univ. Newfoundland, St. John's, Nfld., 1973) See Hilton, Peter, #1811; Liulevicius, Arunas, #1854; Witt, Ernst, #4192; Heath, Philip R., #6789; Klein, Erwin, #7589 and Thom, René, #9129
- Topology Conference (Proc., Auburn Univ., Auburn, Ala., 1969) 6683: *Proceedings of the Auburn Topology Conference.
- Topology Conference (Emory Univ., 1970) See Duda, Edwin, #1711
- Topology Conference (Virginia Polytech. Inst. and State Univ., 1973) See Stone, A. H., #843; Haver, William E., #1756; Alexander, J. P.; Hamrick, G. C.; Vick, J. W., #1849; Keesling, James, #4155; Segal, Jack, #4158; Meyer, Paul R., #4184; Fox, R. H., #4249; Chapman, T. A., #4254; West, James E., #4256; Nadler, Sam B., Jr., #6692; Heath, R. W., #6703; Hunsaker, W. N.; Naimpally, S. A., #6731 and Burke, Dennis K., #11426
- Toposes, algebraic geometry and logic See Bucur, I., #512; Tierney, Myles, #10088 and Lawvere, F. William, #12973
- Total order 12625: *Ordres totaux finis.
- Transactions of the Conference of Army Mathematicians, Seventeenth (1971) See Dressel, F. G., #13497 and Greville, T. N. E., #14520
- Transactions of the Conference of Army Mathematicians, Eighteenth (1972) See Anderson, G. L., #2436
- Transactions of the Conference of Army Mathematicians, Nineteenth (1973) See Hu, T. C., #2336; DiAntonio, G., #6047 and Marshek, K. M.; Moran, M. J., #6101
- Transactions of the Prague Conference on Information Theory, Statistical Decision Functions, Random Processes, Sixth (1971) See Vrkoč, Ivo, #1982; Zvárová, Jana, #2052; Skala, Heinz J., #2904; Balkema, A. A., #3386; Sarymsakov, T. A.; Mirzamedov, M. A., #4380; Kühn, Paul, #4461; Hordijk, Arie, #5030; Longo, Giuseppe, #5166; Fritz, J., #6992; Vognik, Stanislav, #7194; Winkelbauer, Karel, #7727; Papoulis, Athanasios, #9408; Metev, Bojan, #11667; Zieliński, Ryszard, #11921 and Mandl, Petr, #15128
- Travaux du Séminaire d'Analyse Convexe, Vol. I 3841: *Travaux du Séminaire d'Analyse Convexe. Vol. I.
- Travaux du Séminaire d'Analyse Convexe, Vol. II 3842: *Travaux du Séminaire d'Analyse Convexe. Vol. II.
- Travaux du Séminaire d'Analyse Convexe, Vol. 3 3843: *Travaux du Séminaire d'Analyse Convexe. Vol. 3.
- Travaux du Séminaire d'Analyse Convexe, Vol. 4 3844: *Travaux du Séminaire d'Analyse Convexe. Vol. 4.
- Überblicke Mathematik, Band 2 20: *Überblicke Mathematik, Band 2.
- Überblicke Mathematik, Band 6 See Dierolf, Peter, #4161; Schwarz, Wolfgang, #8382; Glässner, Ekkehart; Simon, Udo, #11373 and Meister, E., #13246
- Überblicke Mathematik, Band 7 See Opfer, Gerhard, #871; Merz, Gerhard, #1209; Ehrig, Hartmut, #8201 and Schwarz, Wolfgang, #8383
- Unsolved problems 172: Unsolved problems.
- Unsolved problems in the theory of groups. 10443: *Kourov notebook: unsolved problems in the theory of groups. (Russian)
- Use of redundancy in information systems (Proc. Sem. Cybernet., No. 38) See Tenengol'c, G. M., #7719
- Value-distribution theory, Part A See Wells, R. O., Jr., #10699 and Shiffman, Bernard, #13295
- On values of roots of monomial-transcendental equations See Fettis, Henry E.; Cadin, James C., #2275
- Variationsproblemen 3993: *Numerische Behandlung von Variations- und Steuerungsproblemen.
- Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, Wissenschaftlicher Teil, 153 (Lugano, 1973) 2826: *Verhandlung der Schweizerischen Naturforschenden Gesellschaft. Wissenschaftlicher Teil. See also Piccard, Sophie, #2837
- Visiting scholars' lectures (Texas Tech Univ., Lubbock, Tex., 1970/71) See Helson, Henry, #1293; Johnson, N. L., #2032 and Lax, Peter D., #3713
- Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Ljubljana, 1972) See Jeggle, H., #2316; Knauer, B., #2967; Grabmüller, H., #3957; Wille, F., #6520 and Zahel, G., #11087
- Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (München, 1973) See Schorr, B., #2138; Babuška, I., #2313; Werner, B., #3944; Wacker, H., #4665; Kirchgraber, U., #7412; Glashoff, K., #9820; Beec, H., #11947 and Kielbasinski, A.; Jankowska, J., #11948
- Winter School on Probability, Fourth (Karpacz, 1975) 14179: *Probability—winter school.
- Works of young scientists: mathematics and mechanics, No. 2 See Trohimenko, V. S., #3033 and Gurevič, A. P., #10747
- Zahlen-theorie (Tagung, Math. Forschungsinst., Oberwolfach, 1970) See Sprindžuk, V. G., #350; Schneider, Th., #366; Bundschuh, P., #369; Siebert, H., #391; Fleischer, W., #403; Schweiger, F., #408; Wirsing, E., #409; Hürtter, E., #417; Pleasants, P. A. B., #3056; Wallisser, R., #3071; Nöbauer, W., #5562 and Harborth, H., #12775

SUBJECT CLASSIFICATION

The following 33 pages are a reprinting of the AMS(MOS) 1970 classification scheme that first appeared as a supplement to the index issue of Volume 39 of Mathematical Reviews. Since the middle of 1973 the reviews in the monthly issues of Mathematical Reviews have been arranged in accordance with this scheme (although only the headings that appear in capital letters are printed in the issues), with two exceptions: (i) Sections 96 - 98 of the AMS(MOS) 1970 classification scheme are not being used at all; (ii) Sections 69 through 86 of the classification scheme that last appeared in full in the index issue of Volume 45 of Mathematical Reviews will continue to be used in Mathematical Reviews, instead of Sections 70 through 86 of the AMS(MOS) 1970 classification scheme. These sections are printed immediately after the full AMS(MOS) 1970 classification scheme, in the form in which they are currently being used.

Note that minor revisions are constantly being made in the AMS(MOS) 1970 classification scheme: some of them (and also some minor corrections) have been incorporated in the subject index immediately following the classification scheme.

00—XX GENERAL

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- A05 General mathematics
- A10 Collections of papers: Proceedings of conferences of general interest, translation volumes, etc. [See also 01A75.]
- A15 General bibliographies
- A20 Dictionaries and other general reference works
- A25 Methodology and philosophy of mathematics

01—XX HISTORY AND BIOGRAPHY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- A05 General histories, source books
- A10 Primitive
- A15 Pre-Greek, Babylonian, Egyptian
- A20 Greek
- A25 Far East
- A30 Islam
- A35 Medieval
- A40 15th and 16th centuries, Renaissance
- A45 17th century
- A50 18th century
- A55 19th century
- A60 20th century
- A65 Contemporary
- A70 Biographies, obituaries, personalia
- A75 Collected or selected works; reprintings or translations of classics

02—XX LOGIC AND FOUNDATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

02A05 Philosophical and critical**02Bxx Classical logical systems**

- B05 Propositional calculus
- B10 Predicate calculus
- B15 Higher order predicate calculus
- B20 Unusual quantifiers
- B25 Infinitely long sentences
- B99 None of the above, but in this section

02Cxx Nonclassical formal systems

- C05 Many-valued logic
- C10 Modal logic, etc.
- C15 Formalizations of intuitionism, etc.
- C20 Combinatory logic
- C99 None of the above, but in this section

02Dxx Proof theory [For theorem proving by machines, see 68A40.]

- D05 Proof theoretic ordinals

D99 Other proof theory**02Exx Constructive mathematics**

- E05 Intuitionistic mathematics
- E10 Algorithms
- E15 Computable functions
- E99 None of the above, but in this section

02Fxx Recursion theory

- F05 Thue and Post systems, etc.
- F10 Automata [See also 18B20, 68A25, 94A30, 94A35.]
- F15 Turing machines
- F20 Classification of recursive functions
- F25 Recursively enumerable sets
- F27 Recursion theory on ordinals and sets and other abstract structures
- F29 Recursion theory at higher types
- F30 Degrees of unsolvability
- F35 Hierarchies
- F40 Recursive equivalences types
- F43 Formal systems for computability
- F45 Combinatorial functions
- F47 Word problems
- F50 Applications
- F99 None of the above, but in this section

02Gxx Methodology of deductive systems

- G05 Decidability and undecidability
- G10 Axiomatizability
- G15 Finite axiomatizability
- G20 Completeness, categoricity, etc.
- G99 None of the above, but in this section

02Hxx Model theory

- H05 Models for theories in classical predicate calculus
- H10 Models for other theories
- H13 Model constructions
- H15 Applications to algebra, number theory, etc. [See also 13L05.]
- H20 Nonstandard models
- H25 Applications of nonstandard models [See also 10N15, 12L15, 26A98, 30A91.]
- H99 None of the above, but in this section

02Jxx Algebraic logic

- J05 Boolean algebras, lattices, topologies
- J10 Algebra of relations
- J15 Cylindric and polyadic algebras
- J99 None of the above, but in this section

02Kxx Set theory

- K05 Consistency and independence results
- K10 Nonclassical set theories
- K15 Axiomatics
- K20 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 04A25.]
- K25 Continuum hypothesis, generalized continuum hypothesis [See also 04A30.]
- K30 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 04A15, 28A05, 54H05.]
- K35 Large cardinals and ordinals (inaccessible, etc.)
- K99 None of the above, but in this section

04—XX SET THEORY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Relations, functions [See also 08A05.]
- A10 Transfinite numbers
- A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 02K30, 28A05, 54H05.]
- A20 Combinatorial [See also 05A05.]
- A25 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 02K20.]
- A30 Continuum hypothesis, generalized continuum hypothesis [See also 02K25.]

05—XX COMBINATORICS [For finite fields, see 12Cxx.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

05Axx Classical combinatorial problems

- A05 Combinatorial choice problems; subsets, representatives
- A10 Factorials, binomial coefficients, combinatorial functions
- A15 Combinatorial enumeration problems, generating functions
- A17 Partitions [See also 10A45.]
- A19 Combinatorial identities
- A20 Combinatorial inequalities
- A99 None of the above, but in this section

05Bxx Designs and configurations

- B05 Block designs [See also 62Kxx.]
- B10 Difference sets (number-theoretic, group-theoretic, etc.)
- B15 Orthogonal arrays, Latin squares
- B20 Matrices (incidence, Hadamard, etc.)
- B25 Finite geometries
- B30 Other designs, configurations
- B35 Matroids, geometric lattices
- B40 Packing and covering [See also 10E30, 52A45.]
- B45 Tessellation and tiling problems
- B99 None of the above, but in this section

05Cxx Graph theory [For applications of graphs, see 94A20.]

- C05 Trees
- C10 Topological graph theory, embedding [See also 55A15, 55A25.]
- C15 Chromatic theory of graphs and maps
- C20 Directed graphs (digraphs)
- C25 Graphs and groups
- C30 Enumeration of graphs and maps
- C35 Paths and extremal problems
- C99 None of the above, but in this section

06—XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Total order
- A10 Partial order
- A15 Galois correspondence, closure operators
- A20 Lattices, semi-lattices, generalizations
- A23 Complete lattices
- A25 Complemented lattices, generalizations
- A30 Modular lattices, continuous geometries, generalizations [See also 16A30.]
- A35 Distributive lattices, generalizations
- A40 Boolean algebras and rings
- A45 Order topologies [See also 54F05.]
- A50 Ordered semigroups, other generalizations of groups
- A55 Ordered groups
- A60 Ordered abelian groups
- A65 Ordered linear spaces [See also 46A40.]
- A70 Ordered rings, algebras, modules [For ordered fields, see 10M15, 12J15.]
- A75 Other ordered algebraic structures

08—XX GENERAL MATHEMATICAL SYSTEMS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Structure of general algebras and relational systems [For topological representation, see 54H10.]
- A10 Free algebras, sums, products, limits, colimits
- A15 Varieties of algebras and generalizations
- A20 Axiomatic model classes
- A25 Universal algebra

10—XX NUMBER THEORY [Excluding 10Axx and 10Mxx, this classification scheme does not distinguish work in the rational number fields from that in other algebraic number fields.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

- 10Axx Elementary number theory** [For analogues in number fields, see 12A05.]
- A05 Multiplicative structure of the integers (GCD, etc.)
 - A10 Congruences, primitive roots
 - A15 Power residues, reciprocity
 - A20 Number theoretic functions, related numbers; inversion formulas
 - A25 Elementary prime number theory, factorization
 - A30 Algorithms and expansions, digital properties [Approximation results in 10F20; metric results in 10K10.]
 - A35 Recurrence sequences
 - A40 Special numbers, sequences and polynomials (e.g. Bernoulli)
 - A45 Partitions
 - A99 None of the above, but in this section
- 10Bxx Diophantine equations** [For all papers involving algebro-geometric methods, see 14Gxx.]
- B05 Linear, quadratic and bilinear equations
 - B10 Cubic and quartic equations
 - B15 Higher degree equations
 - B20 Multiplicative equations
 - B25 Nonpolynomial equations
 - B30 Equations in sufficiently many variables [See also 10J10.]
 - B35 Representation problems [See also 10J10.]
 - B40 p -adic and power series fields
 - B45 Diophantine inequalities
 - B99 None of the above, but in this section
- 10Cxx Forms**
- C05 Quadratic and hermitian forms [See also 10E25.]
 - C10 Higher degree forms
 - C15 Analytic theory
 - C20 p -adic theory
 - C25 Minima of forms [See also 10E20.]
 - C30 Arithmetic properties of classical groups [See also 20Gxx.]
 - C99 None of the above, but in this section
- 10Dxx Automorphic theory**
- D05 Modular functions and groups
 - D10 Automorphic functions, one variable
 - D15 Automorphic forms, one variable
 - D20 Automorphic theory, several variables
 - D25 Complex multiplication [See also 14K22.]
 - D99 None of the above, but in this section
- 10Exx Geometry of numbers**
- E05 Lattices and convex bodies [See also 10J25.]
 - E10 Nonconvex bodies
 - E15 Products of linear forms
 - E20 Minima of forms
 - E25 Quadratic forms (reduction, extreme forms, etc.)
 - E30 Lattice packing and covering [See also 05B40, 52A40.]
 - E35 Mean value theorems
 - E40 Transfer theorems
 - E45 Automorphism groups of lattices
 - E99 None of the above, but in this section
- 10Fxx Diophantine approximation** [See also 10Kxx.]
- F05 Approximation to one number
 - F10 Simultaneous approximation
 - F15 Nonhomogeneous approximation
 - F20 Continued fractions and generalizations [See also 10A30.]
 - F25 Approximation to algebraic numbers
 - F30 Approximation by numbers from a fixed field
 - F35 Irrationality and transcendence
 - F40 Distribution modulo one [See also 10K05.]
 - F45 Approximation in nonarchimedean valuations
 - F99 None of the above, but in this section
- 10G05 Exponential sums, character sums**
- 10Hxx Multiplicative theory**
- H05 Riemann zeta-function
 - H10 Other zeta-functions, L -functions [For local and global ground fields, see 12A70, 12A80, 12B30, 12B35; for algebro-geometric methods, see 14G10.]
 - H15 Distribution of primes and of integers with specified multiplicative properties
 - H20 Distribution in progressions and other sequences
 - H25 Asymptotic results on arithmetic functions
 - H30 Sieves
 - H35 Distribution of residue classes (primitive roots, power residues, etc.)
 - H40 Generalized primes and integers
 - H99 None of the above, but in this section
- 10Jxx Additive theory**
- J05 Sums of squares
 - J10 Applications of Hardy-Littlewood method [See also 10B35.]
 - J15 Additive questions involving primes
 - J20 Analytic work on partitions [See also 10A45.]
 - J25 Lattice points in large regions
 - J99 None of the above, but in this section
- 10Kxx Probabilistic theory; measure, dimension, etc.**
- K05 Distribution modulo one
 - K10 Algorithms and expansions
 - K15 Diophantine approximation
 - K20 Arithmetic functions
 - K25 Normal numbers
 - K30 Irregularities of distribution
 - K35 Harmonic analysis and almost periodicity
 - K40 Nonarchimedean theory
 - K99 None of the above, but in this section
- 10Lxx Sequences of integers**
- L05 Addition of sequences
 - L10 Special sequences (density, etc.)
 - L15 Representation functions
 - L99 None of the above, but in this section
- 10Mxx Rational arithmetic of algebraic objects**
- M05 Polynomials [See also 13F20.]
 - M10 Valued fields
 - M15 Ordered fields
 - M20 Matrices [See also 15A36.]
 - M99 None of the above, but in this section
- 10Nxx Connections with logic**
- N05 Decidability
 - N10 Ultraproducts
 - N15 Nonstandard arithmetic [See also 02H25.]
 - N99 None of the above, but in this section

**12-XX ALGEBRAIC NUMBER THEORY, FIELD THEORY
AND POLYNOMIALS**

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 12Axx Algebraic number theory: global fields**
[For complex multiplication, see 10D25.]
 - A05 Analogues in number fields of elementary number theory
 - A10 Characterizations of algebraic numbers and algebraic functions
 - A15 Special algebraic numbers (PV numbers, etc.)
 - A20 Polynomials (irreducibility, etc.)
 - A25 Quadratic fields
 - A30 Cubic and quartic fields
 - A35 Abelian and metabelian extensions (including cyclotomic, Kummer, cyclic)
 - A40 Other number fields
 - A45 Units and factorization
 - A50 Class number, discriminant
 - A55 Galois theory
 - A60 Galois cohomology
 - A65 Class field theory
 - A70 Zeta-functions and L-functions of number fields [See also 10H10.]
 - A75 Density theorems
 - A80 Arithmetic and zeta-functions of algebras
 - A85 Analysis in adèle rings and groups
 - A90 Arithmetic theory of algebraic function fields [See also 14-XX.]
 - A95 Totally real and totally positive fields
 - A99 None of the above, but in this section
- 12Bxx Algebraic number theory: local and p-adic fields**
 - B05 Polynomials
 - B10 Ramification and extension theory
 - B15 Galois theory
 - B20 Galois cohomology
 - B25 Class field theory
 - B30 Zeta- and L-functions [See also 10H10.]
 - B35 Arithmetic and zeta-functions of algebras
 - B40 Other analytic theory
 - B99 None of the above, but in this section
- 12Cxx Finite fields and finite commutative rings**
 - C05 Polynomials
 - C10 Linear sequences
 - C15 Arithmetic
 - C20 Cyclotomy
 - C25 Exponential sums
 - C30 Structure theory
 - C99 None of the above, but in this section
- 12Dxx Real and complex fields**
 - D05 Polynomials: factorization
 - D10 Polynomials: location of zeros [Algebraic theorems; for the analytic theory, see 26A78, 30A08.]
 - D15 Formally real fields
 - D99 None of the above, but in this section
- 12Exx General field theory**
 - E05 Polynomials (irreducibility, etc.)

- E10 Special polynomials
- E99 None of the above, but in this section
- 12Fxx Field extensions**
 - F05 Algebraic extensions
 - F10 Separable extensions, Galois theory
 - F15 Inseparable extensions, derivations
 - F20 Transcendental extensions
 - F99 None of the above, but in this section
- 12Gxx Homological methods**
 - G05 Galois cohomology [See also 12A60, 18H10.]
 - G10 Cohomological dimension
 - G99 None of the above, but in this section
- 12Hxx Differential and difference algebra**
 - H05 Differential algebra
 - H10 Difference algebra
- 12Jxx Topological fields**
 - J05 Normed fields
 - J10 Valued fields
 - J15 Ordered fields
 - J20 General valuation theory
 - J99 None of the above, but in this section
- 12K05 Near-fields and other generalizations**
- 12Lxx Connections with logic**
 - L05 Decidability
 - L10 Ultraproducts
 - L15 Nonstandard arithmetic [See also 02H25.]
 - L99 None of the above, but in this section

13-XX COMMUTATIVE RINGS AND ALGEBRAS

- [For finite commutative rings, see 12Cxx.]
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 01 Elementary exposition (collegiate level)
 - 02 Advanced exposition (research surveys, etc.)
 - 03 Historical
 - 04 Explicit machine computation and programs (not the theory of computation or programming)
 - 13Axx General commutative ring theory**
 - A05 Divisibility
 - A10 Radical theory
 - A15 Ideals, prime ideals, valuations and generalizations
 - A20 Brauer group [See also 16A16.]
 - A99 None of the above, but in this section
 - 13Bxx Ring extensions and related topics**
 - B05 Galois theory
 - B10 Automorphisms and derivations
 - B15 Ramification theory
 - B20 Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)
 - B25 Polynomials over commutative rings
 - B99 None of the above, but in this section
 - 13Cxx Theory of modules and ideals**
 - C05 Structure, classification theorems
 - C10 Special types (projective, injective, free, flat, torsion, reflexive, etc.) [See also 18G05.]
 - C15 Dimension theory, depth, related rings (catenary, etc.)
 - C99 None of the above, but in this section

- 13Dxx Homological methods** [For cohomology of rings and algebras, see 18H20.]
- D05 Homological dimension
 - D10 Deformations and infinitesimal methods
 - D15 Class group, Grothendieck group, K -theory [See also 18F25.]
 - D99 None of the above, but in this section
- 13Exx Chain conditions**
- E05 Noetherian rings
 - E10 Artin rings, finite dimensional algebras
 - E99 None of the above, but in this section
- 13Fxx Arithmetic rings**
- F05 Dedekind and Prüfer rings and their generalizations
 - F10 Principal ideal rings
 - F15 Factorial rings, unique factorization domains
 - F20 Polynomial rings [See also 10M05.]
 - F99 None of the above, but in this section
- 13G05 Integral domains**
- 13Hxx Local rings and semilocal rings**
- H05 Regular local rings
 - H10 Special types (Macaulay, Gorenstein, etc.)
 - H15 Multiplicity theory and related topics
 - H99 None of the above, but in this section
- 13Jxx Topological rings** [For ordered rings, see 06A70; see also 16A80.]
- J05 Power series rings
 - J10 Complete rings
 - J15 Henselian rings
 - J20 Global topological rings
 - J99 None of the above, but in this section
- 13K05 Witt vectors and related rings**
- 13L05 Applications of logic to commutative algebra**

14—XX ALGEBRAIC GEOMETRY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

14Axx Foundations

- A05 Relevant commutative algebra [See also 13—XX.]
- A10 Varieties
- A15 Schemes
- A20 Generalizations (algebraic spaces, motifs)
- A25 Elementary questions
- A99 None of the above, but in this section

14Bxx Local theory

- B05 Singularities [See also 14E15.]
- B10 Infinitesimal methods
- B15 Local cohomology [See also 18F20.]
- B20 Formal neighborhoods
- B99 None of the above, but in this section

14Cxx Cycles and subschemes

- C05 Parametrization (Chow and Hilbert schemes)
- C10 Equivalence relations
- C15 Rational equivalence rings, intersection theory

- C20 Divisors, linear systems, Picard groups
- C25 Zero-cycles
- C30 Transcendental methods, Hodge theory
- C99 None of the above, but in this section

14Dxx Families, fibrations

- D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
- D10 Arithmetic ground fields (finite, local, global)
- D15 Formal methods; deformations [See also 32Gxx.]
- D20 Algebraic moduli problems [For analytic moduli problems, see 32G13.]
- D99 None of the above, but in this section

14Exx Mappings and correspondences

- E05 Rational maps, birational correspondences
- E10 General correspondences
- E15 Global theory of singularities, resolution
- E20 Coverings, fundamental group
- E25 Embeddings
- E30 Minimal models
- E35 Results in dimension ≤ 3
- E99 None of the above, but in this section

14Fxx Cohomology theory [See also 13Dxx, 18—XX.]

- F05 Vector bundles, sheaves, related constructions
- F10 Differentials and other special sheaves
- F15 Serre cohomology, K -theory [See also 13D15, 18F25.]
- F20 Grothendieck cohomology and topology
- F25 Classical real and complex cohomology
- F30 p -adic cohomology
- F35 Homotopy theory
- F99 None of the above, but in this section

14Gxx Arithmetic problems [For complex multiplication, see 10D25, 14K22.]

- G05 Rationality questions
- G10 Zeta-functions and related questions
- G13 Weil-Tate conjectures
- G15 Finite ground fields
- G20 p -adic ground fields (local fields)
- G25 Global ground fields
- G99 None of the above, but in this section

14Hxx Curves

- H05 Algebraic function fields
- H10 Families, moduli (algebraic)
- H15 Families, moduli (analytic) [See also 32G15.]
- H20 Singularities, local rings
- H25 Arithmetic ground fields
- H30 Coverings, fundamental group
- H35 Correspondences
- H40 Jacobians [See also 32G20.]
- H45 Special curves
- H99 None of the above, but in this section

14Jxx Surfaces and 3-dimensional varieties

- J05 Picard group
- J10 Families, moduli, classification: algebraic theory
- J15 Singularities, moduli, classification: analytic theory [See also 32J15.]
- J20 Arithmetic ground fields
- J25 Special surfaces
- J99 None of the above, but in this section

14Kxx Abelian varieties and schemes

- K05 Algebraic theory
- K10 Algebraic moduli, classification

- K15 Arithmetic ground fields
 K20 Analytic theory
 K22 Complex multiplication [See also 10D25.]
 K25 δ -functions
 K30 Picard schemes, higher Jacobians
 K99 None of the above, but in this section
- 14Lxx** Group schemes [For linear algebraic groups, see 20Gxx.]
 L05 Formal groups, p -divisible groups
 L10 Group varieties
 L15 Group schemes
 L20 Finite group schemes
 L25 Pro-algebraic group schemes
 L99 None of the above, but in this section
- 14Mxx** Special varieties
 M05 Varieties defined by ring conditions (factorial, Macaulay)
 M10 Complete intersections
 M15 Grassmannians, homogeneous spaces
 M20 Rational varieties
 M99 None of the above, but in this section
- 14Nxx** Classical methods and problems
 N05 Projective techniques
 N10 Enumerative problems
 N99 None of the above, but in this section
- 15—XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY** (finite and infinite)
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
 A03 Vector spaces, linear dependence, rank
 A06 Linear equations
 A09 Matrix inversion, generalized inverses
 A12 Conditioning of matrices [See also 65F35.]
 A15 Determinants, permanents, other special matrix functions
 A18 Eigenvalues and eigenvectors
 A21 Canonical forms, reductions, classification
 A24 Matrix equations and identities
 A27 Commutativity
 A30 Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]
 A33 Matrices over special rings (quaternions, finite fields, etc.)
 A36 Matrices of integers [See also 10M20.]
 A39 Linear inequalities
 A42 Inequalities involving eigenvalues and eigenvectors
 A45 Miscellaneous inequalities involving matrices
 A48 Positive matrices and their generalizations
 A51 Stochastic matrices
 A54 Matrices over function rings in one or more variables
 A57 Other types of matrices (hermitian, skew-hermitian, etc.)
 A60 Norms of matrices, applications of functional analysis to matrix theory [See also 65F35, 65J05.]
- A63 Quadratic and bilinear forms, inner products
 A66 Clifford algebras
 A69 Multilinear algebra, tensor products
 A72 Vector and tensor algebra, theory of invariants
 A75 Exterior algebra, Grassmann algebras
 A78 Other algebras built from modules
- 16—XX ASSOCIATIVE RINGS AND ALGEBRAS** [For the commutative case, see 13—XX.]
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
 A02 Integral domains, unique factorization domains (noncommutative)
 A04 Noncommutative principal ideal rings, rings with a division algorithm
 A06 Free algebras, free ideal rings (fir) and their generalizations [See also tensor algebra in 15A72.]
 A08 Rings of quotients, noncommutative localization
 A10 Noncommutative local rings
 A12 Prime and semiprime rings
 A14 Noncommutative analogues of Dedekind and Prüfer domains
 A16 Separable algebras, Azumaya algebras and their generalizations [See also 13A20.]
 A18 Orders, arithmetic in algebras
 A20 Primitive and semiprimitive rings
 A21 Radical theory
 A22 Nil, nilpotent and radical rings
 A24 Hopf algebras, algebraic theory [See also 57F05.]
 A26 Group rings [See also 20C05.]
 A28 Rings with involution [See also 46Kxx.]
 A30 von Neumann regular rings and their generalizations [See also 06A30.]
 A32 Idempotents in rings
 A34 Rings with annihilator conditions
 A36 Frobenius algebras, quasi-Frobenius rings and their generalizations
 A38 Rings with polynomial identity
 A40 Division rings, simple and semisimple Artin rings
 A42 Rings of linear transformations, matrix rings, infinite matrix rings
 A44 Finite rings [See also 12Cxx.]
 A46 Chain conditions; finite dimensional algebras, Artin rings, Noetherian rings
 A48 Structure, classification
 A49 Duality theory
 A50 Projective and flat modules and generalizations
 A52 Injective modules, self-injective rings and generalizations
 A54 Grothendieck groups of rings, K -theory of noncommutative rings [See also 18F25.]

- A56 Extension theory
- A58 Deformation theory of rings and algebras [See also 13D10, 32Gxx.]
- A60 Homological dimension
- A62 Homological methods [For cohomology of algebras and rings, see 18H15.]
- A64 Modules and representations
- A66 Ideal theory, prime ideals and their generalizations
- A68 Lie, Jordan and other nonassociative structures on associative rings
- A70 Commutativity theorems
- A72 Automorphisms, derivations
- A74 Galois theory
- A76 Near rings
- A78 Semirings and other generalizations of rings
- A80 Topological rings and semirings [For ordered rings, see 06A70; see also 13Jxx.]

17—XX NONASSOCIATIVE RINGS AND ALGEBRAS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

17Axx General nonassociative algebras

- A05 Power-associative
- A10 Commutative power-associative
- A15 Noncommutative Jordan algebras
- A20 Flexible algebras
- A25 Nodal algebras
- A30 Algebras satisfying other identities
- A99 None of the above, but in this section

17Bxx Lie algebras [For Lie groups, see 22Exx.]

- B05 Structure theory
- B10 Representations, algebraic theory (weights)
- B15 Representations, analytic theory
- B20 Simple, semisimple, reductive algebras (roots)
- B25 Exceptional algebras
- B30 Solvable, nilpotent algebras
- B35 Universal enveloping algebras
- B40 Automorphisms, derivations, other operators
- B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx.]
- B50 Lie p -algebras and bialgebras (Hopf algebras) of formal groups [See also 14L05, 16A24.]
- B55 Homological methods in Lie algebra [For homology of Lie algebras, see 18H25.]
- B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16A68, 17C40, 17C50.]
- B65 Infinite dimensional Lie algebras [See also 22E65.]
- B99 None of the above, but in this section

17Cxx Jordan algebras (commutative)

- C05 Identities
- C10 Structure theory

- C15 Representations
- C20 Simple, semisimple algebras
- C25 Universal enveloping algebras
- C30 Automorphisms, derivations, other operators
- C35 Formally real domains of positivity [See also 32Nxx.]
- C40 Exceptional Jordan algebras and associated Lie groups
- C45 Homological methods in Jordan algebras [For homology of Jordan algebras, see 18H30.]
- C50 Jordan rings associated with other structures [See also 16A68, 17B60.]
- C99 None of the above, but in this section
- 17D05 Alternative rings
- 17E05 Other nonassociative rings and algebras

18—XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 04 Explicit machine computation and programs (not the theory of computation or programming)

18Axx General theory of categories and functors

- A05 Definitions, generalizations
- A10 Graphs, groupoids, neofunctors [See also 20Lxx.]
- A15 Foundations, relations to logic and deductive systems [See also 02—XX.]
- A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
- A25 Functor categories, comma categories
- A30 Limits and colimits (products, sums, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
- A35 Complete categories, completions
- A40 Adjoint functors (representable functors, universal constructions, reflexive subcategories, etc.), constructions of adjoints (Kan extensions, etc.)
- A99 None of the above, but in this section

18Bxx Special categories

- B05 Category of sets, characterizations
- B10 Category of relations, additive relations, semigroups [See also 20Mxx.]
- B15 Embedding theorems, universal categories [See also 18E20.]
- B20 Categories of machines, automata, operative categories [See also 02F10, 68A25, 94A30, 94A35.]
- B99 None of the above, but in this section

18Cxx Categories and algebraic theories

- C05 Equational categories [See also 02—XX.]
- C10 Theories (e.g. algebraic theories), structure, and semantics
- C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx.]
- C99 None of the above, but in this section

18Dxx Categories with structure

- D05 Double categories, 2-categories, bicategories, hypercategories
- D10 Monoidal categories (= multiplicative categories)
- D15 Closed categories (closed monoidal and cartesian closed categories, etc.)
- D20 Enriched categories (over closed or monoidal categories)
- D25 Strong functors, strong adjunctions
- D30 Fibered categories
- D35 Structured objects in a category (group objects, etc.)
- D99 None of the above, but in this section

18Exx Abelian categories

- E05 Preadditive, additive categories
- E10 Exact categories, abelian categories
- E15 Grothendieck categories
- E20 Embedding theorems [See also 18B10.]
- E25 Derived functors and satellites
- E30 Derived categories, triangulated categories
- E35 Localization of categories
- E40 Torsion theories, radicals
- E99 None of the above, but in this section

18Fxx Categories and geometry

- F05 Local categories and functors
- F10 Grothendieck topologies [See also 14F20.]
- F15 Abstract manifolds and fiber bundles [See also 55Fxx, 57Bxx.]
- F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 55B30.]
- F25 Algebraic K-theory [See also 13D15, 14F15, 16A54.]
- F30 Grothendieck groups [See also 13D15, 16A54.]
- F99 None of the above, but in this section

18Gxx Homological algebra

- G05 Projectives and injectives [See also 13C10, 16A50, 16A52.]
- G10 Resolutions; derived functors [See also 18E25.]
- G15 Ext and Tor, generalizations, Künneth formula [See also 55J25.]
- G20 Homological dimension [See also 13Dxx, 16A62.]
- G25 Relative homological algebra, projective classes
- G30 Simplicial sets, simplicial objects (in a category) [See also 55J10.]
- G35 Chain complexes [See also 18E30, 55J15.]
- G40 Spectral sequences, hypercohomology [See also 55Hxx.]
- G99 None of the above, but in this section

18Hxx Cohomology of specified algebraic systems

- H05 General methods; models [See also 18E25, 18G25.]
- H10 Cohomology and homology of groups [See also 20Jxx.]
- H15 Cohomology and homology of algebras and rings [See also 16A62.]
- H20 Cohomology and homology of commutative rings [See also 13Dxx.]
- H25 Cohomology of Lie algebras [See also 17B55.]
- H30 Cohomology of Jordan algebras [See also 17C45.]

H35 Cohomology of other nonassociative algebras [See also 17—XX.]

H40 Cohomology of other algebraic systems

H99 None of the above, but in this section

20—XX GROUP THEORY AND GENERALIZATIONS (For ordered groups, see 06A55.)

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

20Axx Foundations

- A05 Axiomatics and elementary properties
- A10 Metamathematical considerations [For word problems, see 20F10.]
- A99 None of the above, but in this section

20Bxx Finite permutation groups

- B05 General theory
- B10 Characterization theorems
- B15 Uniprimitive groups
- B20 Multiply transitive groups
- B25 Automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 20G40, 20H30, 50—XX.]
- B99 None of the above, but in this section

20Cxx Representation theory of finite groups

- C05 Group rings and their modules [See also 16A26.]
- C10 Integral representations
- C15 Ordinary representations and characters
- C20 Modular representations and characters
- C25 Projective representations and multipliers
- C30 Representations of symmetric groups and other special groups
- C35 Applications to physics
- C99 None of the above, but in this section

20Dxx Abstract finite groups

- D05 Simple groups [See also 20G40.]
- D10 Solvable groups
- D15 Nilpotent groups, p -groups
- D20 Sylow subgroups, π -groups
- D25 Special subgroups (Fratini, Fitting, etc.)
- D30 Series and lattices of subgroups
- D35 Subnormal subgroups
- D40 Products of subgroups
- D45 Automorphisms
- D99 None of the above, but in this section

20Exx Infinite groups

- E05 Free nonabelian groups
- E10 Varieties of groups
- E15 Chains of subgroups (solvable groups, nilpotent groups, etc.)
- E20 Special subgroups other than commutator types
- E25 Local properties, residual properties
- E30 Free products, generalized properties
- E35 Representation in associative rings, Lie rings, combinatorial structures, etc.
- E40 Fundamental groups, etc. [See also 55A05, 57Exx.]
- E99 None of the above, but in this section

- 20Fxx** General groups, finite or infinite
 F05 Generators and relations
 F10 Word problems
 F15 Structure theorems
 F20 Limits, profinite groups
 F25 Extensions, wreath products, other compositions
 F30 Subgroup lattices, maximal subgroups, subnormal subgroups, etc.
 F35 Commutator subgroups and their generalizations
 F40 Associated Lie structures
 F45 Engel conditions
 F50 Periodic groups
 F55 Automorphisms
 F99 None of the above, but in this section
- 20Gxx** Linear algebraic groups (classical groups)
 [See also 10C30, 14—XX; for analytic methods on p -adic groups and adèle groups, see 22E55.]
 G05 Representation theory [For infinite dimensional representations, see 22E50.]
 G10 Cohomology theory
 G15 Linear algebraic groups over arbitrary fields
 G20 Linear algebraic groups over the reals, the complexes, the quaternions
 G25 Linear algebraic groups over local fields and their integers
 G30 Linear algebraic groups over global fields and their integers
 G35 Linear algebraic groups over adèles and other rings and schemes
 G40 Linear algebraic groups over finite fields
 G45 Applications to physics; explicit representations
 G99 None of the above, but in this section
- 20Hxx** Other groups of matrices
 H05 Unimodular groups, congruence subgroups
 H10 Fuchsian groups and their generalizations [See also 30A58, 32Nxx.]
 H15 Other geometric groups, including crystallographic groups [See also 50—XX.]
 H20 Other matrix groups over fields
 H25 Other matrix groups over rings
 H30 Other matrix groups over finite fields
 H99 None of the above, but in this section
- 20Jxx** Connections with homological algebra and category theory
 J05 Homological methods in group theory
 J10 Groups arising as cohomology groups
 J15 Category of groups
 J99 None of the above, but in this section
- 20Kxx** Abelian groups
 K05 Finitely generated groups
 K10 Torsion groups
 K15 Torsion free groups, finite rank
 K20 Torsion free groups, infinite rank
 K25 Direct sums, direct products, etc.
 K30 Automorphisms, homomorphisms, endomorphisms
 K35 Extensions
 K40 Homological and categorical methods [See also 18H10.]
 K45 Topological methods
 K99 None of the above, but in this section

- 20Lxx** Groupoids (small categories in which all morphisms are isomorphisms)
 L05 General theory
 L10 Connections with group theory
 L15 Connections with topology
 L99 None of the above, but in this section
- 20Mxx** Semigroups
 M05 Free semigroups, generators and relations, word problem
 M10 Structure theory, ideals, idempotents, etc.
 M15 Mappings of semigroups
 M20 Semigroups of transformations, etc. [See also 47D05.]
 M25 Semigroup rings, multiplicative semigroups of rings
 M30 Representation of semigroups
 M35 Semigroups in automata theory, linguistics, etc. [See also 02F10.]
 M99 None of the above, but in this section
- 20Nxx** Other generalizations of groups
 N05 Loops, quasigroups [See also 05Bxx.]
 N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
 N15 n -ary systems
 N99 None of the above, but in this section

- 22—XX** TOPOLOGICAL GROUPS, LIE GROUPS [For transformation groups, see 54H15, 57Exx, 58—XX. For abstract harmonic analysis, see 43—XX.]
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 22Axx** Topological algebraic systems [For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 46L05.]
 A05 Structure of general topological groups
 A10 Analysis on general topological groups
 A15 Structure of topological semigroups
 A20 Analysis on topological semigroups
 A25 Representations of general topological groups and semigroups
 A30 Representations of other topological algebraic systems
 A99 None of the above, but in this section
- 22Bxx** Locally compact abelian groups (LCA groups)
 B05 General properties and structure of LCA groups
 B10 Structure of group algebras of LCA groups
 B99 None of the above, but in this section
- 22C05** Compact groups
22Dxx Locally compact groups and their algebras
 D05 General properties and structure of locally compact groups
 D10 Unitary representations of locally compact groups
 D12 Other representations of locally compact groups

- D15 Group algebras of locally compact groups
 D20 Representations of group algebras
 D25 C^* -algebras and W^* -algebras arising from group representations
 D30 Induced representations
 D35 Duality theorems
 D40 Ergodic theory on groups [See also 28A65.]
 D45 Automorphism groups of locally compact groups
 D99 None of the above, but in this section
22Exx Lie groups [For the topology of Lie groups and homogeneous spaces, see 57Exx, 57Fxx; for the analysis thereof, see 43A90, 43A85, 43A90.]
 E05 Local Lie groups [See also 34—XX, 35—XX, 58H05.]
 E10 General properties and structure of complex Lie groups
 E15 General properties and structure of real Lie groups
 E20 General properties and structure of other Lie groups
 E25 Nilpotent and solvable Lie groups
 E30 Analysis on real and complex Lie groups [See also 33A75, 43—XX.]
 E35 Analysis on p -adic Lie groups [See also 12A85.]
 E40 Discrete subgroups of Lie groups [See also 32Nxx.]
 E43 Structure and representation of the Lorentz group
 E45 Representations of Lie and linear algebraic groups: analytic methods [For the purely algebraic theory, see 20G05.]
 E50 Representations of Lie and linear algebraic groups over local fields: analytic methods [For the purely algebraic theory, see 20G05.]
 E55 Representations of Lie and linear algebraic groups over global fields and adèle rings: analytic methods [For the purely algebraic theory, see 20G05.]
 E60 Lie algebras of Lie groups [For the algebraic theory of Lie algebras, see 17Bxx.]
 E65 Infinite dimensional Lie groups and their Lie algebras [See also 17B65, 58H05.]
 E70 Applications of Lie groups to physics; explicit representations [See also 81—XX.]
 E99 None of the above, but in this section
26—XX REAL FUNCTIONS [See also 54C30.]
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
 A03 Foundations: limits and generalizations, elementary topology of the line
 A06 One-variable calculus
 A09 Elementary functions
 A12 Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]
 A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) [For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.]
 A16 Lipschitz (Hölder) classes
 A18 Iteration [See also 39A20.]
 A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50.]
 A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15.]
 A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
 A30 Singular functions, Cantor functions, functions with other special properties
 A33 Fractional derivatives and integrals
 A36 Antidifferentiation
 A39 Denjoy and Perron integrals, other special integrals
 A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28—XX.]
 A45 Functions of bounded variation, generalizations
 A48 Monotonic functions, generalizations
 A51 Convexity, generalizations
 A54 Several variables: continuity and differentiation questions
 A57 Several variables: implicit function theorems, Jacobians, transformations with several variables
 A60 Calculus of vector functions
 A63 Integration: length, area, volume
 A66 Integral formulas (Stokes, Gauss, Green, etc.)
 A69 Special properties of functions of several variables, Hölder conditions, etc.
 A72 Superposition of functions
 A75 Polynomials (analytic properties, inequalities, etc.)
 A78 Polynomials (location of zeros) [See also 12D10, 30A08, 65H05.]
 A81 Rational functions
 A82 Inequalities for trigonometric functions and polynomials
 A84 Inequalities involving derivatives and differential and integral operators
 A86 Inequalities for sums, series and integrals
 A87 Other analytical inequalities
 A90 Real-analytic functions
 A93 C^∞ -functions, quasi-analytic functions
 A96 Calculus of functions on infinite-dimensional spaces
 A98 Nonstandard analysis [See also 02H25.]
28—XX MEASURE AND INTEGRATION [For analysis on manifolds, see 58—XX.]
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Classes of sets (Borel fields, σ -rings, etc.) measurable sets, Suslin sets, analytic sets [See also 04A15, 26A21, 54H05.]
- A10 Real- or complex-valued set functions, contents, measures, outer measures, capacities, etc.
- A15 Abstract differentiation theory, differentiation of set functions [See also 26A24.]
- A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
- A25 Integration with respect to measures and other set functions
- A30 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.)
- A35 Measures and integrals in product spaces
- A40 Measures and integrals in function spaces and linear spaces, Wiener measure [See also 46Gxx.]
- A45 Vector-valued measures and integrals, integration of vector-valued functions [See also 46G10.]
- A50 Integration and disintegration of measures [For lifting theory, see 46G15.]
- A55 Measures and integrals with values in general ordered systems
- A60 Measures on Boolean rings, measure algebras [See also 54H10.]
- A65 Measure-preserving transformations, flows (dynamical systems), measure-theoretic ergodic theory [See also 47A35, 54H20, 58Fxx.]
- A70 Invariant measures, Haar measure [See also 43A05.]
- A75 Length, area, volume, other geometric measure theory [See also 26A63, 49F20.]

30—XX FUNCTIONS OF A COMPLEX VARIABLE [For analysis on manifolds, see 58—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A02 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
- A04 Inequalities in the complex domain
- A06 Polynomials
- A08 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) [For algebraic theory, see 12D10; for real methods, see 26A78.]

- A10 Power series (including lacunary series)
- A12 Boundary behavior of power series, over-convergence
- A14 Analytic continuation
- A16 Dirichlet series and other series expansions, exponential series [See also 40—XX, 41—XX, 42—XX.]
- A18 Completeness problems, closure of a system of functions
- A20 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39A15.]
- A22 Continued fractions [See also 10A30, 40A15.]
- A24 Conformal mappings of special domains
- A26 Covering theorems in conformal mapping theory
- A28 Numerical methods in conformal mapping theory
- A30 General theory of conformal mappings
- A31 Kernel functions and applications
- A32 Special classes of univalent and multivalent functions (star-like, convex, bounded rotation, etc.)
- A34 Coefficient problems for univalent and multivalent functions
- A36 General theory of univalent and multivalent functions
- A38 Extremal problems, variational methods
- A40 Extremal problems, other methods
- A42 Maximum principle; Schwarz' Lemma, Lindelöf principle; analogues and generalizations
- A44 Capacity and harmonic measure in the complex plane [See also 31A15.]
- A46 Compact Riemann surfaces and uniformization [See also 14H15, 32G15.]
- A48 Classification theory of Riemann surfaces
- A50 Ideal boundary theory
- A52 Differentials on Riemann surfaces
- A58 Discontinuous groups and automorphic functions [See also 10Dxx, 20H10 and 32Nxx.]
- A60 Quasiconformal mappings and functions
- A62 Representations of entire functions by series and integrals
- A64 Special classes of entire functions and growth estimates
- A66 Entire functions, general theory
- A68 Meromorphic functions, general theory
- A70 Distribution of values, Nevanlinna theory
- A72 Cluster sets, prime ends, boundary behavior
- A74 Normal functions, normal families
- A76 Blaschke products, bounded characteristic, bounded functions, functions with positive real part
- A78 H^p , quasianalytic and other classes of functions
- A80 Moment problems, interpolation problems
- A82 Approximation in the complex domain
- A84 Asymptotic representations in the complex domain
- A86 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx.]

- A88 Boundary value problems
 A90 Topological function theory
 A91 Nonstandard function theory [See also 02H25.]
 A92 Generalized analytic functions
 A93 Pseudo-analytic functions
 A94 p -analytic functions
 A95 Discrete analytic functions
 A96 Other generalizations of analytic functions (including abstract-valued functions)
 A97 Functions of hypercomplex variables and generalized variables
 A98 Spaces and algebras of analytic functions [See also 46J15.]
- 31—XX POTENTIAL THEORY** [For probabilistic potential theory, see 60J45.]
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 31Axx Two-dimensional theory**
 A05 Harmonic, subharmonic, superharmonic functions
 A10 Integral representations
 A15 Potentials and capacity, harmonic measure, extremal length
 A20 Boundary behavior (Fatou type theorems, etc.)
 A25 Boundary value and inverse problems
 A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
 A35 Connections with differential equations
 A99 None of the above, but in this section
- 31Bxx Higher dimensional theory**
 B05 Harmonic, subharmonic, superharmonic functions
 B10 Integral representations
 B15 Potentials and capacities, extremal length
 B20 Boundary value and inverse problems
 B25 Boundary behavior
 B30 Biharmonic and polyharmonic equations and functions
 B35 Connections with differential equations
 B99 None of the above, but in this section
- 31Cxx Other generalizations**
 C05 Harmonic, subharmonic, superharmonic functions
 C10 Pluriharmonic and plurisubharmonic functions [See also 32F05.]
 C15 Potentials and capacities
 C20 Discrete potential theory and numerical methods
 C25 Dirichlet spaces
 C99 None of the above, but in this section
- 31D05 Axiomatic potential theory**

- 32—XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES**
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 32Axx Holomorphic functions of several complex variables**
 A05 Power series, series of functions
 A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
 A10 Holomorphic functions
 A15 Entire functions
 A17 Normal families
 A20 Meromorphic functions
 A25 Integral representation and residue theory
 A30 Other generalizations of function theory of one complex variable [For functions of several hypercomplex variables, see 30A97.]
 A99 None of the above, but in this section
- 32Bxx Local analytic geometry** [See also 13—XX and 14—XX.]
 B05 Analytic algebras and generalizations, preparation theorems
 B10 Germs of analytic sets
 B15 Analytic subsets of affine space
 B20 Semi-analytic sets
 B99 None of the above, but in this section
- 32Cxx General theory of analytic spaces**
 C05 Real-analytic manifolds, real-analytic spaces
 C10 Complex manifolds [For almost complex manifolds, see 53C15.]
 C15 Complex spaces
 C20 Normal analytic spaces
 C25 Analytic subsets and submanifolds
 C30 Integration on analytic sets and spaces
 C35 Analytic sheaves and cohomology groups [See also 18F20, 55B30.]
 C40 Singularities
 C45 Modifications, resolution of singularities [See also 14E15.]
 C99 None of the above, but in this section
- 32Dxx Analytic continuation**
 D05 Domains of holomorphy
 D10 Envelopes of holomorphy
 D15 Continuation of analytic objects
 D20 Removable singularities
 D99 None of the above, but in this section
- 32Exx Holomorphic convexity**
 E05 Holomorphically convex complex spaces, reduction theory
 E10 Stein spaces, Stein manifolds
 E15 Runge pairs
 E20 Polynomial convexity
 E25 Algebras of holomorphic functions
 E30 Holomorphic and polynomial approximation
 E99 None of the above, but in this section

32Fxx Geometric convexity

- F05 Plurisubharmonic functions and generalizations [See also 31C10.]
- F10 q -convexity, q -concavity
- F15 Pseudoconvex domains
- F99 None of the above, but in this section [For the theory of the $\bar{\partial}$ -Neumann problem on pseudoconvex domains, see 35N15.]

32Gxx Deformations of analytic structures

- G05 Deformations of complex structures [See also 13D10, 16A58, 58H05.]
- G10 Deformations of submanifolds and subspaces
- G13 Analytic moduli problems [For algebraic moduli problems, see 14D20.]
- G15 Moduli of Riemann surfaces, Teichmüller theory [See also 30A46.]
- G20 Period matrices
- G99 None of the above, but in this section

32Hxx Analytic mappings

- H05 Representative domains
- H10 Bergman kernel function
- H15 Invariant metrics and pseudodistances
- H20 Hyperbolic complex manifolds
- H25 Picard type theorems and generalizations
- H99 None of the above, but in this section

32Jxx Compact analytic spaces [For Riemann surfaces, see 14Hxx, 30A46.]

- J05 Compactification
- J10 Algebraic dependence theorems
- J15 Compact surfaces [See also 14Jxx.]
- J20 Algebraicity criteria
- J25 Transcendental methods of algebraic geometry [See also 14C30.]
- J99 None of the above, but in this section

32Kxx Generalizations of analytic spaces

- K05 Banach analytic spaces [See also 58Bxx.]
- K10 Nonarchimedean analytic spaces
- K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25.]
- K99 None of the above, but in this section

32Lxx Holomorphic fiber spaces [See also 55Fxx.]

- L05 Holomorphic fiber bundles and generalizations
- L10 Sheaves and cohomology of sections of holomorphic vector bundles [See also 18F20, 55B30.]
- L99 None of the above, but in this section

32Mxx Complex spaces with a group of automorphisms

- M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10.]
- M10 Homogeneous complex manifolds [See also 57F15.]
- M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57F15.]
- M99 None of the above, but in this section

32Nxx Automorphic functions [See also 10Dxx, 20H10, 22E40, 30A58.]

- N05 General theory of automorphic functions of several complex variables
- N10 Automorphic forms
- N15 Automorphic functions in symmetric domains
- N99 None of the above, but in this section

33—XX SPECIAL FUNCTIONS [33—XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42A52. Expansions in orthogonal functions are treated in 42A56.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A10 Exponential and trigonometric functions
- A15 Gamma and beta functions
- A20 Error function, probability integral
- A25 Elliptic functions and integrals
- A30 Hypergeometric functions of one and several variables, generalizations
- A35 E -functions, G -functions, etc.
- A40 Cylindrical functions, Bessel functions
- A45 Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials
- A50 Gegenbauer functions
- A55 Lamé, Mathieu, spheroidal wave functions
- A60 Other wave functions
- A65 Orthogonal special functions and polynomials (Chebyshev, Hermite, Jacobi, Laguerre, etc.)
- A70 Other special functions
- A75 Special functions and Lie groups

34—XX ORDINARY DIFFERENTIAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

34Axx General theory

- A05 Solutions in closed form, integration by quadratures, reduction of differential equations
- A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions
- A15 Initial value problems: continuation of solutions
- A20 Differential equations in the complex domain [See also 30A70.]
- A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44—XX, 47E05.]
- A30 Linear equations and systems
- A35 Differential equations of infinite order
- A40 Differential inequalities
- A45 Theoretical approximation of solutions

- A50 Numerical approximation of solutions
[For numerical analysis, see 65Lxx.]
- A99 None of the above, but in this section
- 34Bxx Boundary value problems**
- B05 Linear equations
- B10 Multipoint boundary value problems
- B15 Nonlinear boundary value problems
- B20 Weyl theory and its generalizations
- B25 Spectral theory, Sturm-Liouville, and scattering theory; eigenfunctions, eigenvalues, and expansions [See also 42—XX, 43—XX, 47Axx, 47Bxx, 47E05.]
- B30 Special equations (Mathieu, Hill, Bessel, etc.) [See also 33—XX.]
- B99 None of the above, but in this section
- 34Cxx Qualitative theory**
- C05 Limit cycles, singular points
- C10 Zeros, disconjugacy, growth, boundedness, oscillation and comparison of solutions
- C15 Nonlinear oscillations
- C20 Transformation and reduction of equations and systems
- C25 Periodic and almost periodic solutions
- C30 Manifolds of solutions, averaging method [See also 47H10, 58Fxx.]
- C35 Dynamical systems [See also 58Fxx, 70—XX.]
- C40 Equations and systems on manifolds [See also 58Fxx, 58Gxx.]
- C99 None of the above, but in this section
- 34Dxx Stability theory [See also 58F10, 93Dxx.]**
- D05 Asymptotic properties, characteristic exponents
- D10 Perturbations
- D15 Singular perturbations
- D20 Ljapunov stability
- D25 Popov-type stability
- D30 Structural stability and analogous concepts [See also 58Fxx.]
- D35 Stability of manifolds of solutions
- D99 None of the above, but in this section
- 34Exx Asymptotic theory**
- E05 Asymptotic expansions
- E10 Perturbations
- E15 Singular perturbations, general theory
- E20 Singular perturbations, turning point theory, WKB-methods
- E99 None of the above, but in this section
- 34F05 Equations and systems with randomness [See also 60K05, 93Exx.]**
- 34G05 Differential equations in Banach and other abstract spaces [See also 47Bxx.]**
- 34H05 Control problems [See also 49—XX, 93—XX.]**
- 34Jxx Functional differential equations**
- J05 General theory
- J10 Differential-difference equations
- J99 None of the above, but in this section
- 34Kxx Functional-differential equations with retarded arguments, functional-differential equations with deviating arguments**
- K05 General theory
- K10 Boundary value problems
- K15 Qualitative theory
- K20 Stability theory
- K25 Asymptotic theory
- K99 None of the above, but in this section

35—XX PARTIAL DIFFERENTIAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 35Axx General theory**
- A05 General existence and uniqueness theorems
- A10 Cauchy-Kowalewski theorems
- A15 Variational methods
- A20 Analytic methods, singularities
- A22 Transform methods
- A25 Other special methods
- A30 Geometric theory, characteristics, transformations
- A35 Theoretical approximation to solutions
- A40 Numerical approximation to solutions [For numerical analysis, see 65Mxx, 65Nxx, 65P05.]
- A99 None of the above, but in this section
- 35Bxx Qualitative properties of solutions**
- B05 Comparison theorems; oscillation, zeros and growth of solutions
- B10 Periodic solutions
- B15 Almost periodic solutions
- B20 Perturbations
- B25 Singular perturbations
- B30 Dependence of solutions on initial and boundary data, parameters
- B35 Stability and control, boundedness [See also 93—XX.]
- B40 Asymptotic behavior of solutions
- B45 Differential inequalities, a priori estimates
- B99 None of the above, but in this section
- 35Cxx Representations of solutions**
- C05 Solutions in closed form
- C10 Series solutions, expansion theorems
- C15 Integral representations
- C99 None of the above, but in this section
- 35Dxx Generalized solutions**
- D05 Existence of generalized solutions
- D10 Regularity of generalized solutions
- D99 None of the above, but in this section
- 35Exx Equations and systems with constant coefficients [See also 35N05.]**
- E05 Fundamental solutions
- E10 Convexity properties
- E15 Initial value problems
- E99 None of the above, but in this section
- 35Fxx General first order equations and systems**
- F05 Linear equations and systems, general
- F10 Initial value problems for linear equations and systems
- F15 Boundary value problems for linear equations and systems
- F20 Nonlinear equations and systems, general
- F25 Initial value problems for nonlinear equations and systems
- F30 Boundary value problems for nonlinear equations and systems
- F99 None of the above, but in this section

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

35Gxx General higher order equations and systems

- G05 Linear equations and systems, general
- G10 Initial value problems for linear equations and systems
- G15 Boundary value problems for linear equations and systems
- G20 Nonlinear equations and systems, general
- G25 Initial value problems for nonlinear equations and systems
- G30 Boundary value problems for nonlinear equations and systems
- G99 None of the above, but in this section

35H05 Hypoelliptic equations and systems
35Jxx Elliptic equations and systems

- J05 Laplace's equation, reduced wave equation (Helmholtz), Poisson's equation Schrödinger operator [See also 47A40.]
- J10 Second order equations, general
- J20 Second order equations, variational methods
- J25 Second order equations, boundary value problems
- J30 Higher order equations, general
- J35 Higher order equations, variational problems
- J40 Higher order equations, boundary value problems
- J45 Systems, general
- J50 Systems, variational methods
- J55 Systems, boundary value problems
- J60 Nonlinear equations and systems
- J65 Nonlinear boundary value problems for linear equations and systems
- J67 Boundary values of solutions
- J70 Equations and systems of degenerate type
- J99 None of the above, but in this section

35Kxx Parabolic equations and systems

- K05 Heat equation
- K10 Second order equations, general
- K15 Second order equations, initial value problems
- K20 Second order equations, boundary value problems
- K25 Higher order equations, general
- K30 Higher order equations, initial value problems
- K35 Higher order equations, boundary value problems
- K40 Systems, general
- K45 Systems, initial value problems
- K50 Systems, boundary value problems
- K55 Nonlinear equations and systems
- K60 Nonlinear boundary value problems for linear equations and systems
- K99 None of the above, but in this section

35Lxx Hyperbolic equations and systems

- L05 Wave equation
- L10 Second order equations, general
- L15 Second order equations, initial value problems
- L20 Second order equations, boundary value problems
- L25 Higher order equations, general
- L30 Higher order equations, initial value problems
- L35 Higher order equations, boundary value problems

L40 First order systems, general

- L45 First order systems, initial value problems
- L50 First order systems, boundary value problems
- L55 Higher order hyperbolic systems
- L60 Nonlinear equations and systems, general
- L65 Conservation laws [See also 76Axx.]
- L99 None of the above, but in this section

35M05 Equations and systems of mixed type (Tricomi, etc.) [For degenerate types, elliptic, see 35Jxx, hyperbolic, see 35Lxx, etc.]
35Nxx Overdetermined systems

- N05 Constant coefficients
- N10 Variable coefficients, general
- N15 ∂ -Neumann problem and generalizations; formal complexes [See also 58G05.]
- N99 None of the above, but in this section

35Pxx Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05.]

- P05 General spectral theory
- P10 Completeness of eigenfunctions, eigenfunction expansions
- P15 Estimation of eigenvalues, upper and lower bounds
- P20 Asymptotic distribution of eigenvalues and eigenfunctions
- P25 Scattering theory [See also 47A40.]
- P99 None of the above, but in this section

35Qxx Special equations and problems [See also 35J05, 35K05, 35L05]

- Q05 Euler-Poisson-Darboux equation and generalizations
- Q10 Navier-Stokes equation [See also 76D05.]
- Q15 Riemann-Hilbert problems [See also 30A88, 31A25.]
- Q99 None of the above, but in this section

35Rxx Miscellaneous topics [For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE's, see 60H15.]

- R05 Equations with discontinuous coefficients or data
- R10 Difference-partial differential equations, equations with time lag
- R15 Equations on function spaces
- R20 Operator equations, general [See also 34G05, 47A50, 47H15.]
- R25 Improperly posed problems
- R30 Inverse problems (undetermined coefficients, etc.)
- R99 None of the above, but in this section

35Sxx Pseudodifferential operators [See also 47G05.]

- S05 General theory
- S10 Initial value problems
- S15 Boundary value problems
- S99 None of the above, but in this section

39—XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

- A05 Finite differences, general
- A10 Difference equations
- A15 Functional equations, general [For functional-differential equations, see 34Jxx.]
- A20 Classical functional equations
- A25 Linear and multilinear functional equations
- A30 Functional equations in several variables, systems
- A35 Matrix functional equations
- A40 Functional equations on abstract structures

40—XX SEQUENCES, SERIES, SUMMABILITY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 40Axx Convergence and divergence of infinite limiting processes
 - A05 Convergence and divergence of series and sequences
 - A10 Convergence and divergence of integrals
 - A15 Convergence and divergence of continued fractions [See also 30A22.]
 - A20 Convergence and divergence of infinite products
 - A25 Approximation to limiting values (summation of series, etc.) [For the Euler-Maclaurin summation formula, see 65B15.]
 - A99 None of the above, but in this section
- 40B05 Multiple sequences and series
- 40Cxx General summability methods
 - C05 Matrix methods
 - C10 Integral methods
 - C15 Function theoretic methods (including power series methods and semicontinuous methods)
 - C99 None of the above, but in this section
- 40Dxx Direct theorems on summability
 - D05 General theorems
 - D10 Tauberian constants and oscillation limits
 - D15 Convergence factors and summability factors
 - D20 Summability and bounded fields of methods
 - D25 Inclusion and equivalence theorems
 - D99 None of the above, but in this section
- 40E05 Tauberian theorems
- 40F05 Absolute and strong summability
- 40Gxx Special methods of summability
 - G05 Cesàro, Euler, Nörlund and Hausdorff methods
 - G10 Abel, Borel and power series methods
 - G99 None of the above, but in this section
- 40H05 Functional analytic methods in summability
- 40J05 Summability in abstract structures [See also 43A55.]

41—XX APPROXIMATIONS AND EXPANSIONS [For all approximation theory in the complex domain, see 30A80 and 30A82; for all trigonometric approximation and interpolation, see 42A08, 42A12.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Interpolation [See also 42A12 and 65D05.]
- A10 Approximation by polynomials [For approximation by trigonometric polynomials, see 42A08.]
- A15 Spline approximation
- A20 Approximation by rational functions
- A25 Rate of convergence, degree of approximation
- A30 Approximation by other special function classes
- A35 Approximation by operators (in particular, by integral operators)
- A40 Saturation classes
- A45 Approximation by arbitrary linear and nonlinear expressions; widths and entropy
- A50 Best approximation (Čebyšev, etc.)
- A55 Approximate quadratures
- A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30A84.]
- A63 Multidimensional problems
- A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

42—XX FOURIER ANALYSIS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A04 Trigonometric polynomials, inequalities, extremal problems
- A08 Approximation by trigonometric polynomials
- A12 Trigonometric interpolation
- A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series
- A18 Multipliers
- A20 Convergence of Fourier and trigonometric series
- A24 Summability of trigonometric series
- A28 Absolute convergence, absolute summability

- A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
- A36 Probabilistic methods in Fourier analysis
- A40 Conjugate functions, conjugate series, singular integrals
- A44 Lacunary series of trigonometric and other functions
- A48 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
- A52 Orthogonal functions and polynomials, general theory [See also 33A85.]
- A56 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
- A60 Series of general orthogonal functions and generalized Fourier expansions
- A62 Uniqueness and localization for orthogonal series
- A64 Completeness of sets of functions
- A68 Fourier transforms
- A72 Fourier-Stieltjes transforms [See also 60E05.]
- A76 Other transforms of Fourier type [See also 44A60.]
- A80 Trigonometric moment problems
- A84 Classical almost periodic functions [See also 43A60.]
- A88 Positive definite functions
- A92 Multiple Fourier series and integrals
- A96 Convolution, factorization

43—XX ABSTRACT HARMONIC ANALYSIS (For other

- analysis on topological and Lie groups, see 22Exx.)
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- A05 Measures on groups and semigroups
- A07 Means on groups and semigroups
- A10 Measure algebras on groups and semigroups
- A15 L_p spaces and other function spaces on groups and semigroups
- A20 L_1 algebras on groups and semigroups
- A22 Homomorphisms and multipliers of function spaces on groups
- A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
- A30 Fourier and Fourier-Stieltjes transforms on non-abelian groups and on semigroups
- A32 Other transforms and operators of Fourier type
- A35 Positive definite functions on groups
- A40 Character groups and dual objects
- A45 Spectral synthesis on groups and semigroups
- A50 Convergence of Fourier series and of inverse transforms
- A55 Summability methods on groups and semigroups
- A60 Almost periodic functions on groups and semigroups

- A65 Representations of groups and semi-groups
- A70 Analysis on specific locally compact abelian groups [See also 12A85.]
- A75 Analysis on specific compact groups
- A80 Analysis on other specific Lie groups
- A85 Analysis on homogeneous spaces
- A90 Spherical functions
- A95 Categorical methods [See also 18—XX.]

44—XX INTEGRAL TRANSFORMS, OPERATIONAL

- CALCULUS (For fractional derivatives and integrals, see 26A33.)
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 General transforms [See also 42A76.]
- A10 Laplace transform
- A15 Special transforms (Legendre, Hilbert, etc.)
- A20 Transforms of special functions
- A25 Singular integrals (Calderón-Zygmund, etc.) [See also 47G05.]
- A30 Multiple transforms
- A35 Convolution
- A40 Calculus of Mikusiński and other similar operational calculi
- A45 Classical operational calculus
- A50 Moment problems [See also 42A80.]

45—XX INTEGRAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 45A05 Linear integral equations
- 45B05 Fredholm integral equations
- 45C05 Eigenvalue problems [See also 34B25, 35Pxx, 47E05.]
- 45D05 Volterra integral equations [See also 34A10.]
- 45E1x Singular integral equations
- E05 Integral equations with Cauchy type kernels [See also 30A88, 35J15, 44A15, 44A35.]
- E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 44A15, 44A35, 47B35.]
- E99 None of the above, but in this section
- 45F05 Systems of linear integral equations
- 45G1x Nonlinear integral equations [See also 47Hxx.]
- G05 Singular nonlinear integral equations
- G99 Other nonlinear integral equations

- 45H05 Miscellaneous special kernels [See also 44A15.]
- 45J05 Integro-ordinary differential equations
- 45K05 Integro-partial differential equations
- 45Lxx Approximation of solutions
- L05 Theoretical approximation of solutions
- L10 Numerical approximation of solutions [For numerical analysis, see 65R05.]
- 45Mxx Qualitative behavior
- M05 Asymptotics
- M10 Stability theory
- M99 None of the above, but in this section
- 45N05 Abstract integral equations, integral equations in abstract spaces
- 46—XX FUNCTIONAL ANALYSIS** [For manifolds modelled on topological linear spaces, see 57A20, 58Bxx.]
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 46Axx Topological linear spaces
- A05 Locally convex spaces
- A07 Barrelled spaces
- A09 Bornological spaces
- A10 Locally bounded topological linear spaces
- A15 Other topological linear spaces
- A20 Duality theory
- A25 Reflexivity and semi-reflexivity
- A30 Open mappings and closed graph theorems and completeness (including B -, B_r -completeness)
- A35 Summability and bases
- A40 Ordered topological linear spaces, vector lattices
- A45 Sequence spaces (including Köthe spaces)
- A99 None of the above, but in this section
- 46Bxx Normed linear spaces and Banach spaces [For function spaces, see 46Exx.]
- B05 Topology in terms of the norms
- B10 Duality and reflexivity
- B15 Summability and bases
- B99 None of the above, but in this section
- 46Cxx Inner product spaces, Hilbert spaces [For function spaces, see 46Exx.]
- C05 Geometry and topology of the spaces
- C10 Other properties of such spaces
- 46D05 Spaces with indefinite inner product
- 46Exx Function spaces [For function algebras, see 46J10.]
- E05 Lattices of continuous, differentiable or analytic functions
- E10 Topological linear spaces of continuous, differentiable or analytic functions
- E15 Banach spaces of continuous, differentiable or analytic functions
- E20 Hilbert spaces of continuous, differentiable or analytic functions
- E25 Rings and algebras of continuous, differentiable or analytic functions [For Banach function algebras, see 46J10, 46J15.]
- E30 Spaces of measurable functions, L^p spaces, Orlicz spaces [See also 43A15.]
- E35 Sobolev spaces, embedding theorems, trace theorems, interpolation spaces
- E40 Spaces of vector- and operator-valued functions
- E99 None of the above, but in this section
- 46Fxx Distributions, generalized functions, distribution spaces
- F05 Topological linear spaces of test functions and distributions
- F10 Operations with distributions
- F15 Hyperfunctions, analytic functionals [See also 32A25, 32C35.]
- F99 None of the above, but in this section
- 46Gxx Measures, integration, derivatives [For integration on infinite-dimensional spaces, see 28A40; for nonlinear functional analysis, see 58—XX, especially 58Cxx.]
- G05 Derivatives
- G10 Vector-valued measures and integration
- G15 Lifting theory
- G99 None of the above, but in this section
- 46Hxx Topological algebras, normed rings and algebras, Banach algebras [For group algebras, convolution algebras and measure algebras, see 43—XX.]
- H05 General theory
- H10 Ideals and subalgebras
- H15 Representations
- H20 Structure, classification
- H25 Normed modules and Banach modules
- H99 None of the above, but in this section
- 46Jxx Commutative Banach algebras
- J05 General theory
- J10 Banach algebras of continuous functions, function algebras
- J15 Banach algebras of differentiable or analytic functions, H^p -spaces [See also 30A98, 32E25.]
- J20 Ideals, maximal ideals, boundaries
- J25 Representations
- J30 Subalgebras
- J35 Structure, classification
- J99 None of the above, but in this section
- 46Kxx Rings and algebras with an involution
- K05 Ideals, subalgebras
- K10 Representations
- K15 Hilbert algebras
- K99 None of the above, but in this section
- 46Lxx Rings and algebras of operators, with or without involution [For other algebraic systems of operators, see 47Dxx.]
- L05 C^* -algebras (= B^* -algebras) [See also 22D25.]
- L10 von Neumann algebras (= rings of operators, W^* -algebras)
- L15 Nonselfadjoint operator algebras on Hilbert space
- L20 Operator algebras on Banach and linear topological spaces
- L25 Dual spaces of operator algebras and topological groups
- L99 None of the above, but in this section
- 46Mxx Categorical methods [See also 18—XX.]
- M05 Tensor products
- M10 Projective and injective objects
- M15 Functors

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

M99 None of the above, but in this section
46N05 Miscellaneous applications of functional analysis

47—XX OPERATOR THEORY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

47Axx Single linear operators: general theory

- A05 Adjoints, conjugates
- A10 Spectrum, resolvent, numerical range
- A15 Invariant subspaces
- A20 Dilations, extensions, compressions
- A25 Spectral sets
- A30 Norms (inequalities, more than one norm, etc.)
- A35 Ergodic theory [See also 28A65.]
- A40 Scattering theory [See also 35J10.]
- A45 Canonical models for contractions and nonselfadjoint operators
- A50 Equations involving linear operators
- A55 Perturbation theory
- A60 Functional calculus
- A65 Structure theory
- A70 Eigenfunction expansions, rigged Hilbert spaces
- A99 None of the above, but in this section

47Bxx Single linear operators: special classes of operators

- B05 Compact operators, Riesz operators
- B10 Hilbert-Schmidt operators, trace class operators, nuclear operators, etc.
- B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
- B20 Subnormal operators, hyponormal operators, etc.
- B25 Symmetric and selfadjoint operators (unbounded)
- B30 Fredholm operators
- B35 Toeplitz operators, Wiener-Hopf operators [For other integral operators, see also 47G05.]
- B40 Spectral operators
- B44 Dissipative operators
- B45 Difference operators
- B47 Commutators
- B50 Operators on a space with an indefinite metric
- B55 Operators on ordered spaces
- B99 None of the above, but in this section

47Cxx Single linear operators as elements of algebraic systems

- C05 Operators in algebras
- C10 Operators in *-algebras
- C15 Operators in von Neumann algebras
- C99 None of the above, but in this section

47Dxx Algebraic systems of linear operators [For rings and algebras of operators, see 46Kxx, 46Lxx.]

- D05 Semigroups of operators [For Markov processes, see 60Jxx.]
- D10 Groups of operators
- D15 Linear spaces of operators

D20 Convex sets and cones of operators

D99 None of the above, but in this section

47E05 Ordinary differential operators [See also 34B25, 58Fxx.]

47F05 Partial differential operators [See also 35Pxx, 58Gxx.]

47G05 Integral, integro-differential, and pseudodifferential operators [See also 35Sxx, 58Gxx.]

47Hxx Nonlinear operators

H05 Monotone operators

H10 Fixed point theorems

H15 Equations involving nonlinear operators

H99 None of the above, but in this section

49—XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL [See also 34H05, 93Exx.]

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

—01 Elementary exposition (collegiate level)

—02 Advanced exposition (research surveys, etc.)

—03 Historical

—04 Explicit machine computation and programs (not the theory of computation or programming)

49Axx Existence theory for optimal solutions

- A05 Free problems in one independent variable
- A10 Problems involving ordinary differential equations
- A15 Free problems in two or more independent variables
- A20 Problems involving partial differential equations
- A25 Problems in abstract spaces
- A30 Problems involving functional relations other than differential equations
- A35 Optimal solutions belonging to restricted classes (bang-bang controls, etc.)
- A40 Minimax problems
- A50 Topology of solutions, weak and strong minima, semicontinuity, convexity, orientor fields
- A99 None of the above, but in this section

49Bxx Necessary conditions and sufficient conditions for optimality

- B05 Free problems in one independent variable
- B10 Problems involving ordinary differential equations
- B15 Optimal solutions belonging to restricted classes
- B20 Free problems in two or more independent variables
- B25 Problems involving partial differential equations
- B30 Problems in abstract spaces
- B35 Problems involving functional relations other than differential equations
- B40 Minimax problems
- B50 Sensitivity of optimal solutions in the presence of perturbations
- B99 None of the above, but in this section

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming

- C05 Free problems and problems involving ordinary differential equations

- C10 Free problems and problems involving partial differential equations
- C15 Problems in abstract spaces or involving functional relations other than differential equations
- C99 None of the above, but in this section
- 49Dxx Methods of successive approximations**
- D05 Methods based on necessary conditions
- D10 Methods of steepest descent type
- D15 Methods of Newton-Raphson, Galerkin and Ritz types
- D20 Methods of relaxation type
- D25 Finite difference methods
- D30 Other methods, not based on necessary conditions (penalty function, etc.)
- D35 Methods of linear programming type
- D40 Methods of quadratic programming type
- D45 Methods of convex programming type
- D99 None of the above, but in this section
- 49Exx Controllability and geometry of control problems**
- E05 General dependence on controls
- E10 Orientor fields (contingency equations)
- E15 Attainable sets, controllability
- E20 Interrelations between stability problems and optimization problems
- E25 Effect of perturbations on controllability
- E30 Relations between controllability and optimal solutions
- E99 None of the above, but in this section
- 49Fxx Manifolds**
- F05 Exterior differential forms, invariant integrals (Cartan theory) [See also 58A15.]
- F10 Minimal surfaces
- F15 Morse theory in Hilbert and other spaces [See also 58Exx.]
- F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 58A25.]
- F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting
- F25 Surface area
- F99 None of the above, but in this section
- 49Gxx Variational methods and eigenvalues**
- G05 Variational approach to eigenvalues
- G10 Rayleigh-Ritz methods
- G15 Weinstein and Aronszajn methods, intermediate problems
- G20 Linear operators in Hilbert spaces
- G99 None of the above, but in this section
- 49H05 Variational principles of physics** [See also 70Hxx, 81A09.]

50—XX GEOMETRY [For algebraic geometry, see 14—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

50Axx Foundations

- A05 Euclidean
- A10 Noneuclidean
- A15 Transformation groups
- A20 Algebraic characterizations [See also 06A75, 12K05, 16A76, 16A78, 16A80, 17D05, 17E05, 20N10.]
- A25 Models [See also 02H15.]
- A30 Length, area, volume
- A99 None of the above, but in this section

50Bxx Euclidean geometry (including equiform geometry)

- B05 Constructions
- B10 Metric formulae
- B15 Inequalities
- B20 Geometry of circles
- B25 Euclidean and equiform geometry over fields other than the reals
- B30 Regular figures, division of space [See also 20H15.]
- B35 Other groups generated by reflections
- B99 None of the above, but in this section

50Cxx Other metric geometries

- C05 Elliptic and hyperbolic, general
- C10 Elliptic and hyperbolic inequalities
- C15 Groups generated by elliptic and hyperbolic reflections [See also 20H10.]
- C20 Hyperbolic convexity
- C25 Other metric geometries

50Dxx Geometries of other transformation groups

- D05 Affine geometry, general
- D10 Affine geometry, subgroups (centro-affine, equiaffine)
- D15 Descriptive geometry
- D20 Projective geometry over the reals
- D25 Projective geometry over other infinite fields
- D30 Projective geometry over finite fields
- D35 Projective geometry over combinatorial or nonfield structures
- D40 Line geometry
- D45 Circle and sphere geometry: Lie, Laguerre, Möbius
- D50 Geometries of other space elements
- D99 None of the above, but in this section

52—XX CONVEX SETS AND GEOMETRIC INEQUALITIES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Convex sets without dimension restrictions
- A10 Convex sets in 2 dimensions
- A15 Convex sets in 3 dimensions
- A20 Convex sets in n dimensions
- A25 Convex polyhedra
- A30 Star-shaped sets
- A35 Helly-type theorems
- A40 Inequalities and extremum problems
- A45 Packing and covering [See also 05B40, 10E30, 50B30.]

- A50 Hilbert geometry and other distance geometries
 A55 Spherical convexity [See also 50C20.]

53—XX DIFFERENTIAL GEOMETRY { For differential

topology, see 57Dxx. For foundational questions of differentiable manifolds, see 58Axx. }

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)

53Axx Classical differential geometry

- A05 Curves and surfaces in euclidean space
 A10 Minimal surfaces
 A15 Affine differential geometry
 A20 Projective differential geometry
 A25 Differential line geometry
 A30 Conformal differential geometry
 A35 Noneuclidean differential geometry
 A40 Other special differential geometries
 A45 Vector and tensor analysis
 A50 Spinor analysis
 A55 Differential invariants (local theory), geometric objects
 A99 None of the above, but in this section

53Bxx Local differential geometry

- B05 Affine connections
 B10 Projective connections
 B15 Other connections
 B20 Local Riemannian geometry
 B25 Submanifolds
 B30 Lorentz metrics, indefinite metrics
 B35 Hermitian and Kählerian structures [See also 32Cxx.]
 B40 Finsler spaces and generalizations (areal metrics)
 B99 None of the above, but in this section

53Cxx Global differential geometry { For related bundle theory, see 55Fxx, 57Dxx. }

- C05 Connections
 C10 G -structures
 C15 Almost complex, contact, symplectic, almost product structures, etc.
 C20 Riemannian manifolds, including pinching [See also 58B20.]
 C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
 C30 Homogeneous manifolds [See also 57F15.]
 C35 Symmetric spaces [See also 57F15.]
 C40 Submanifolds, isometric imbeddings [See also 57D40.]
 C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
 C50 Lorentz manifolds, manifolds with indefinite metrics
 C55 Hermitian and Kählerian structures [See also 32Cxx.]
 C60 Finsler spaces and generalizations (areal metrics) [See also 58B20.]
 C65 Integral geometry, differential forms, currents, etc.

- C70 Direct methods (G -spaces of Busemann, etc.)
 C75 Geometric orders, order geometry
 C99 None of the above, but in this section

54—XX GENERAL TOPOLOGY { For the topology of manifolds of all dimensions, see 57Axx. }

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)

54Axx Generalities

- A05 Topological spaces and generalizations (closure spaces, etc.)
 A10 Change of topology, comparison of topologies
 A15 Syntopogeneous structures
 A20 Convergence (general theory) and limits
 A25 Cardinality properties (discrete subsets, weight, etc.)
 A99 None of the above, but in this section

54Bxx Basic constructions

- B05 Subspaces
 B10 Product spaces
 B15 Quotient spaces, decompositions
 B17 Adjunction spaces and similar constructions
 B20 Hyperspaces
 B25 Sums, inverse limits
 B99 None of the above, but in this section

54Cxx Maps and general types of spaces defined by maps

- C05 Continuous maps
 C10 Special maps: open, closed, perfect, almost open, light, etc.
 C15 Retraction
 C20 Extension
 C25 Imbedding
 C30 Real-valued functions [See also 26—XX.]
 C35 Function spaces [See also 58D15.]
 C40 $C(X)$; algebraic techniques (ideals, etc.) [See also 46J10.]
 C45 C - and C^* -imbedding
 C50 Zero sets, Baire sets and functions [See also 26A21.]
 C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties)
 C60 Set-valued maps
 C65 Selections
 C99 None of the above, but in this section

54Dxx Fairly general properties

- D05 Connected and locally connected spaces (general aspects)
 D10 Separation axioms, $T_0 - T_3$
 D15 Higher separation axioms (completely regular, normal, perfectly or collection-wise normal, etc.)
 D20 Covering properties: Lindelöf, (m, n) -compact, paracompact, pointwise paracompact, etc.

- D25 "P-minimal" and "P-closed" spaces
 D30 Compact spaces and generalizations
 D35 Compactifications, etc.
 D40 Remainders
 D45 Local compactness, σ -compactness
 D50 k -spaces
 D55 Sequential spaces
 D60 Realcompactness and realcompactification
 D99 None of the above, but in this section
- 54Exx Spaces with richer structures**
 E05 Proximity structures and generalizations
 E10 p -maps
 E15 Uniform structures and generalizations
 E20 Stratifiable spaces, cosmic spaces, etc.
 E25 Semimetric spaces
 E30 Moore spaces
 E35 Metric spaces, metrizability
 E40 Isometries, contractions, expansions
 E45 Compact (locally compact) metric spaces
 E50 Complete metric spaces
 E55 Bitopologies
 E60 CW-complexes, triangulable spaces
 E99 None of the above, but in this section
- 54Fxx Special properties**
 F05 Ordered topological spaces, partially ordered spaces [See also 06A45.]
 F15 Continua and generalizations
 F20 Special types of continua
 F25 Peano spaces and generalizations
 F30 Cyclic elements
 F35 Higher dimensional local connectedness [See also 55Bxx, 55Cxx.]
 F40 Compact (locally compact) absolute neighborhood retracts
 F45 Dimension theory [See also 55C10.]
 F50 Spaces of dimension ≤ 1 ; curves, dendrites [See also 26A03.]
 F55 Unicoherence, multicoherence
 F60 Maps into S_n
 F65 Topological characterizations of particular spaces
 F99 None of the above, but in this section
- 54Gxx Peculiar spaces**
 G05 Extremely disconnected spaces, F -spaces, etc.
 G10 P -spaces
 G15 Pathological spaces
 G20 Counterexamples
 G99 None of the above, but in this section
- 54Hxx Connections with other structures, applications**
 H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 04A15, 26A21, 28A05.]
 H10 Topological representations of algebraic systems [See also 22—XX.]
 H15 Transformation groups and semigroups [See also 20Mxx, 22—XX, 57Exx.]
 H20 Topological dynamics [See also 28A65, 34C35, 58Fxx.]
 H25 Fixed-point and coincidence theorems [See also 47H10, 55C20.]
 H99 None of the above, but in this section
- 54J05 Nonstandard topology**
- 55—XX ALGEBRAIC TOPOLOGY**
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 55Axx Low-dimensional topology [See also 57Axx.]**
 A05 Fundamental group, presentations, free differential calculus [See also 20E40.]
 A10 Covering spaces, branched coverings
 A15 Graphs and map coloring [For other graph theory, see 05Cxx.]
 A20 Two-dimensional complexes
 A25 Knots and links [For the high-dimensional case, see 57C45.]
 A30 Wild knots and surfaces, etc.
 A35 Dehn's Lemma, sphere theorem, loop theorem, asphericity
 A40 Characterizations of E^3 and S^3 (Poincaré conjecture)
 A99 None of the above, but in this section
- 55Bxx Homology and cohomology theories**
 B05 Čech types
 B10 Singular theory
 B15 K -theory [For algebraic K -theory, see 18F25.]
 B20 Generalized (extraordinary) homology and cohomology theories, spectra
 B25 Homology with local coefficients, equivariant cohomology
 B30 Sheaf cohomology [See also 18F20, 32C35, 32L10.]
 B35 Other homology theories
 B40 Axioms for homology theory and uniqueness theorems
 B45 Products and intersections
 B99 None of the above, but in this section
- 55Cxx Classical topics [For the topology of Euclidean spaces and manifolds, see 57A05, 57A10, 57A15.]**
 C05 Duality
 C10 Dimension theory [See also 54F45.]
 C15 Absolute neighborhood retracts [See also 54C55.]
 C20 Fixed points and coincidences [See also 54H25.]
 C25 Degree
 C30 Ljusternik-Schnirelman category of a space
 C35 Finite groups of transformations (Smith theory)
 C99 None of the above, but in this section
- 55Dxx Homotopy theory [For simple homotopy type, see 57C10.]**
 D05 Homotopy extension properties, cofibrations
 D10 Homotopy equivalences
 D15 Classification of homotopy type
 D20 Eilenberg-MacLane spaces
 D25 Spanier-Whitehead duality
 D30 Eckmann-Hilton duality
 D35 Loop spaces
 D40 Suspensions
 D45 H -spaces and duals
 D50 Category and cocategory, etc.
 D99 None of the above, but in this section
- 55Exx Homotopy groups**
 E05 Homotopy groups, general; sets of homotopy classes

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- E10 Stable homotopy groups
- E15 Whitehead products and generalizations
- E20 Homotopy groups of wedges, joins, and simple spaces
- E25 Hopf invariants
- E30 Homotopy groups of triads, n -ads
- E35 Operations in homotopy groups
- E40 Homotopy groups of spheres
- E45 Stable homotopy of spheres
- E50 The J -morphism
- E55 Cohomotopy groups
- E99 None of the above, but in this section

55Fxx Fiber spaces and bundles (See also 18F15.)

- F05 Fiber spaces
- F10 Fiber bundles
- F15 Classification
- F20 Spectral sequences and homology of fiber spaces (See also 55Hxx.)
- F25 Sphere bundles and vector space bundles
- F35 Classifying spaces of groups and H -spaces
- F40 Homology of classifying spaces, characteristic classes
- F45 Homology and homotopy of BO and BU ; Bott periodicity
- F50 Stable classes of vector space bundles, K -theory [For algebraic K -theory, see 18F25.]
- F55 Fiberings with singularities
- F60 Microbundles and block bundles
- F65 Generalizations of fiber spaces and bundles
- F99 None of the above, but in this section

55Gxx Operations and obstructions

- G05 Primary cohomology operations
- G10 Steenrod algebra
- G15 Symmetric products, cyclic products
- G20 Secondary and higher cohomology operations
- G25 K -theory operations and generalized cohomology operations
- G30 Massey products
- G35 Obstruction theory
- G36 Extension and compression of mappings
- G37 Classification of mappings
- G40 Sectioning fiber spaces and bundles
- G45 Postnikov systems, k -invariants
- G99 None of the above, but in this section

55Hxx Spectral sequences

- H05 General
- H10 Serre spectral sequences
- H15 Adams spectral sequences
- H20 Eilenberg-Moore spectral sequences
- H25 Generalized cohomology
- H99 None of the above, but in this section

55Jxx Applied homological algebra (See also 18Gxx.)

- J05 Abstract complexes
- J10 Semisimplicial complexes
- J15 Chain complexes
- J20 Universal coefficient theorems, Bockstein operator
- J25 Homology of a product, Künneth formula
- J30 Duality
- J99 None of the above, but in this section

57—XX MANIFOLDS AND CELL COMPLEXES (For complex manifolds, see 32C10.)

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

57Axx Topological manifolds

- A05 Topology of E_2 , 2-manifolds
- A10 Topology of E_3 , 3-manifolds [See also 55Axx.]
- A15 Topology of E_n , n -manifolds ($3 < n < \infty$)
- A17 Topology of topological vector spaces
- A20 Topology of infinite-dimensional manifolds [See also 58Bxx.]
- A30 Engulfing
- A35 Imbeddings and immersions
- A40 Neighborhoods of submanifolds
- A45 Flatness
- A50 $S^{n-1} \subset E^n$, Schoenflies problem
- A55 Microbundles
- A60 Cellularity
- A65 Algebraic topology of manifolds
- A70 Cobordism
- A99 None of the above, but in this section

57Bxx Generalized manifolds (See also 18F15.)

- B05 Local properties
- B10 Poincaré duality spaces
- B99 None of the above, but in this section

57Cxx PL-topology

- C05 The general topology of complexes
- C10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc.
- C15 Triangulating manifolds
- C20 Cobordism
- C25 Comparison of PL-structures: classification, Hauptvermutung
- C30 Engulfing
- C35 Imbeddings and immersions
- C40 Regular neighborhoods
- C45 Knots and links (in high dimensions) [For the low-dimensional case, see 56A25.]
- C50 Microbundles and block bundles [See also 55F60.]
- C55 Approximations
- C99 None of the above, but in this section

57Dxx Differential topology (For foundational questions of differentiable manifolds, see 58Axx; for infinite dimensional manifolds, see 58Bxx.)

- D05 Triangulating
- D10 Smoothing
- D12 Smooth approximations
- D15 Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)
- D20 Characteristic classes
- D25 Vector fields, frame fields, etc.
- D30 Foliations
- D35 Differentiable mappings
- D40 Imbeddings and immersions
- D45 Singularities of differentiable mappings
- D50 Diffeomorphisms
- D55 Differentiable structures
- D60 Homotopy spheres, Poincaré conjecture
- D65 Surgery and handlebodies
- D70 Critical points and critical submanifolds
- D75 O - and SO -cobordism
- D80 k - and s -cobordism
- D85 Equivariant cobordism
- D90 Other types of cobordism

- D95 Realizing cycles by submanifolds
D99 None of the above, but in this section
- 57Exx Topological transformation groups** [See also 20E40, 22—XX, 54H15, 58D05.]
E05 Topological properties of groups of homeomorphisms
E10 Compact groups of homeomorphisms
E15 Compact Lie groups of differentiable transformations
E20 Noncompact Lie groups of transformations
E25 Groups acting on specific manifolds
E30 Discontinuous groups of transformations
E99 None of the above, but in this section
- 57Fxx Homology and homotopy of topological groups and related structures**
F05 Hopf algebras [See also 16A24.]
F10 Homology of Lie groups
F15 Homology of homogeneous spaces of Lie groups
F20 Homotopy groups of topological groups and homogeneous spaces
F25 Homology of H -spaces
F30 Bar and cobar constructions
F35 Applications of Eilenberg-Moore spectral sequences [See also 55F20, 55H20.]
F99 None of the above, but in this section
- 58—XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS**
[For real-analytic and complex manifolds, see 32Cxx; for geometric integration theory, see 49F20, 49F22.]
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
- 58Axx General theory of differentiable manifolds**
A05 Differentiable manifolds, foundations
A10 Differential forms
A15 Exterior differential systems (Cartan theory) [For variational problems, see 49F05.]
A20 Jets
A25 Currents
A30 Vector distributions (sub-bundles of the tangent bundles)
A99 None of the above, but in this section
- 58Bxx Infinite dimensional manifolds** [See also 57A20.]
B05 Homotopy and topological questions
B10 Differentiable and holomorphic questions
B15 Fredholm structures
B20 Riemannian, Finsler, and other geometric structures
B99 None of the above, but in this section
- 58Cxx Calculus on manifolds**
C05 Real-valued functions
C10 Holomorphic maps
C15 Implicit function theorems
C20 Differentiation theory (Gâteaux, Fréchet, etc.)
- C25 Differentiable maps and singularities
C99 None of the above, but in this section
- 58Dxx Spaces and manifolds of mappings**
D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22Exx, 57E05.]
D10 Spaces of imbeddings and immersions
D15 Manifolds of mappings [See also 54C35.]
D99 None of the above, but in this section
- 58Exx Critical point theory** [For the finite dimensional case, see 57D70; for variational problems, see 49F15.]
E05 Abstract theory (Morse theory, Ljusternik-Schnirelman theory, etc.)
E10 Application to theory of geodesics
E15 Application to extremal problems in several variables
E99 None of the above, but in this section
- 58Fxx Differentiable dynamical systems** [For abstract and symbolical topological dynamics, see 28A65, 34C35, 54H20.]
F05 Hamiltonian and other special systems
F10 Stability theory
F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
F20 Periodic points and zeta functions
F99 None of the above, but in this section
- 58Gxx Differential operators on manifolds**
G05 Elliptic complexes [See also 35N15.]
G10 Index theorems and fixed point theorems
G15 Pseudodifferential operators on manifolds
G99 None of the above, but in this section
- 58H05 Pseudogroups (infinite dimensional Lie groups) and deformations of structures** [See also 22E65.]
- 60—XX PROBABILITY THEORY AND STOCHASTIC PROCESSES** [For additional applications, see 10Kxx, 42A36, 62—XX, 90—XX, 92—XX, 93—XX, 94—XX.]
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
- 60A05 Axioms, foundations**
60Bxx Probability theory on algebraic and topological structures
B05 Probability measures on topological spaces
B10 Convergence of probability measures, invariance theorems [See also 28A65.]
B15 Probability measures on groups, Fourier transforms, factorization
B99 None of the above, but in this section
- 60C05 Combinatorial probability**
60D05 Geometric probability
60E05 Distributions, characteristic functions
60Fxx Limit theorems
F05 Central limit and other weak theorems
F10 Large deviations
F15 Strong theorems [See also 28A65.]

- F20 Zero-one laws
 F99 None of the above, but in this section
- 60Gxx Stochastic processes**
 G05 Foundations of stochastic processes
 G10 Stationary processes
 G15 Gaussian processes
 G17 Sample path properties
 G20 Generalized stochastic processes
 G25 Prediction theory [See also 62M10.]
 G30 Continuity and singularity of induced measures
 G35 Applications (signal detection, filtering, etc.) [See also 94A05.]
 G40 Stopping times
 G45 Martingale theory
 G50 Sums of independent random variables
 G99 None of the above, but in this section
- 60Hxx Stochastic analysis**
 H05 Stochastic integrals
 H10 Stochastic ordinary differential equations [See also 34F05.]
 H15 Stochastic partial differential equations
 H20 Stochastic integral equations
 H99 None of the above, but in this section
- 60Jxx Markov processes**
 J05 Markov processes with discrete parameter
 J10 Markov chains
 J15 Random walk
 J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)
 J25 Markov processes with continuous parameter
 J30 Processes with independent increments
 J35 Transition functions, generators and resolvents [See also 47D05.]
 J40 Hunt processes
 J45 Probabilistic potential theory [See also 31—XX.]
 J50 Boundary theory
 J55 Local time and additive functionals
 J60 Diffusion processes [See also 28A65.]
 J65 Brownian motion
 J70 Applications of diffusion theory (population genetics, absorption problems, etc.)
 J75 Jump processes
 J80 Branching processes (Galton-Watson, birth-and-death, etc.)
 J85 Applications of branching processes [See also 90Bxx.]
 J99 None of the above, but in this section
- 60Kxx Special processes**
 K05 Renewal theory
 K10 Applications (reliability, demand theory, etc.)
 K15 Markov renewal processes, semi-Markov processes
 K20 Applications of Markov renewal processes (reliability, queueing networks, etc.)
 K25 Queueing theory
 K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 60J80.]
 K35 Interacting random processes, statistical mechanics type models
 K99 None of the above, but in this section

62—XX STATISTICS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 62Axx Foundations**
 A05 Invariance and group considerations
 A10 The likelihood approach
 A15 The Bayesian approach
 A99 None of the above, but in this section
- 62Bxx Sufficiency**
 B05 Sufficient statistics and fields
 B10 Statistical information theory
 B15 Comparison of experiments
 B20 Measure-theoretic results, etc.
 B99 None of the above, but in this section
- 62Cxx Decision theory (For game theory, see 90Dxx.)**
 C05 General considerations
 C07 Complete class results
 C10 Bayesian problems; characterization of Bayes procedures
 C15 Admissibility
 C25 Compound decision problems
 C99 None of the above, but in this section
- 62D05 Sampling theory, sample surveys**
- 62Exx Distribution theory**
 E10 Characterization and structure theory
 E15 Distribution of statistics
 E20 Asymptotic theory
 E25 Monte Carlo studies
 E99 None of the above, but in this section
- 62Fxx Parametric inference**
 F05 Hypothesis testing
 F07 Ranking and selection
 F10 Estimation
 F15 Bayesian inference
 F20 Asymptotic efficiency
 F25 Tolerance and confidence regions
 F99 None of the above, but in this section
- 62Gxx Nonparametric inference**
 G05 Estimation
 G10 Hypothesis testing
 G15 Tolerance and confidence regions
 G20 Asymptotic efficiency
 G25 Quick and easy methods
 G30 Order statistics
 G35 Robustness
 G99 None of the above, but in this section
- 62Hxx Multivariate analysis**
 H05 Characterization and structure theory
 H10 Distribution of statistics
 H15 Hypothesis testing
 H20 Correlation analysis, canonical correlation
 H25 Factor analysis and principal components
 H30 Classification and discrimination
 H99 None of the above, but in this section
- 62Jxx Linear inference**
 J05 Regression analysis
 J10 Analysis of variance and covariance
 J15 Paired and multiple comparisons
 J99 None of the above, but in this section

- 62Kxx** Experimental design [See also 05Bxx.]
- K05 Optimal designs
 - K10 Block designs
 - K15 Factorial designs
 - K99 None of the above, but in this section
- 62Lxx** Sequential methods
- L05 Sequential design
 - L10 Sequential analysis
 - L12 Sequential estimation
 - L15 Optimal stopping [See also 60G40.]
 - L20 Stochastic approximation
 - L99 None of the above, but in this section
- 62Mxx** Inference from stochastic processes
- M05 Markov processes
 - M10 Time series, auto-correlation, regression, etc.
 - M15 Spectral analysis of time series
 - M20 Prediction [See also 60G25.]
 - M99 None of the above, but in this section
- 62Nxx** Engineering statistics
- N05 Reliability and life testing
 - N10 Quality control [See also 90Bxx.]
 - N15 Stochastic differential and difference equations [See also 34F05, 60H10, 93Exx.]
 - N99 None of the above, but in this section
- 62Pxx** Applications [See also 82—XX, 90—XX, 92—XX.]
- P05 Actuarial mathematics
 - P10 Biometrics
 - P15 Psychometrics
 - P20 Econometrics
 - P25 Sociometrics
 - P99 None of the above, but in this section
- 62Q05** Statistical tables

65—XX NUMERICAL ANALYSIS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 01 Elementary exposition (collegiate level)
 - 02 Advanced exposition (research surveys, etc.)
 - 03 Historical
- 65A05** Tables
- 65Bxx** Acceleration of convergence
- B05 Extrapolation to the limit, deferred corrections
 - B10 Summation of series
 - B15 Euler-MacLaurin formula
 - B20 Poisson formula, etc.
 - B99 None of the above, but in this section
- 65Cxx** Numerical simulation [See also 68A55.]
- C05 Monte Carlo methods
 - C10 Random number generation
 - C99 None of the above, but in this section
- 65Dxx** Numerical approximation [Primarily algorithms; for theory, see 41—XX.]
- D05 Interpolation
 - D10 Smoothing, curve fitting
 - D15 Algorithms for functional approximation
 - D20 Computation of special functions, construction of tables
 - D25 Numerical differentiation
 - D30 Numerical integration, quadrature, cubature, etc.
 - D99 None of the above, but in this section

- 65E05** Numerical methods in complex analysis (potential theory, etc.) [For numerical methods in conformal mapping, see 30A28.]

65Fxx Numerical linear algebra

- F05 Direct methods for linear systems and matrix inversion
- F10 Iterative methods for linear systems [See also 65N20.]
- F15 Eigenvalues, eigenvectors
- F20 Overdetermined systems, pseudoinverses
- F25 Orthogonalization
- F30 Other matrix algorithms
- F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60.]
- F99 None of the above, but in this section

65G05 Roundoff error**65Hxx Nonlinear algebraic or transcendental equations**

- H05 Single equations
- H10 Systems of equations

65J05 Numerical analysis in abstract spaces**65K05 Mathematical programming and optimization techniques [Computational aspects; for algorithms and theory, see 49Exx and 90Cxx.]****65Lxx Ordinary differential equations**

- L05 Initial value problems
- L10 Boundary value problems
- L15 Eigenvalue problems
- L99 None of the above, but in this section

65Mxx Partial differential equations, initial value problems

- M05 Derivation of finite difference approximations
- M10 Stability and convergence of difference methods
- M15 Error bounds
- M20 Method of lines
- M25 Method of characteristics
- M30 Improperly posed problems
- M99 None of the above, but in this section

65Nxx Partial differential equations, boundary value problems

- N05 Derivation of finite difference approximations
- N10 Convergence of difference methods
- N15 Error bounds
- N20 Solution of difference equations [See also 65F10.]
- N25 Eigenvalue problems
- N30 Rayleigh-Ritz and Galerkin methods
- N35 Collocation and related methods
- N99 None of the above, but in this section

65P05 Partial differential equations, miscellaneous problems**65Q05 Difference and functional equations, recurrence relations****65R05 Integral and integro-differential equations****65S05 Graphical methods****65T05 Harmonic analysis and synthesis****68—XX COMPUTER SCIENCE [For papers involving machine computations and programs in a specific mathematical area, see section —04 in that area.]**

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)

- 03 Historical
- A05 Programming theory
- A10 Algorithms [See also 02E10.]
- A15 Symbolic computation
- A20 Computational complexity and efficiency
- A25 Automata theory [See also 02F10, 18B20, 94A30, 94A35.]
- A30 Linguistics, formal languages
- A35 Adaptive systems
- A40 Theorem proving
- A45 Artificial intelligence, pattern recognition
- A50 Information retrieval
- A55 Simulation [See also 65Cxx.]

70—XX MECHANICS OF PARTICLES AND SYSTEMS

{ For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82—XX. }

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

70A05 Axiomatics**70Bxx Kinematics**

- B05 Kinematics of a particle
- B10 Kinematics of a rigid body
- B15 Mechanisms and linkages
- B99 None of the above, but in this section

70Cxx Statics

- C05 Forces, fields
- C10 Potential energy
- C99 None of the above, but in this section

70Dxx Dynamics of a particle [See also 70Hxx.]

- D05 Newtonian dynamics
- D10 Lagrangian dynamics
- D99 None of the above, but in this section

70Exx Dynamics of a rigid body

- E05 Motion of the gyroscope
- E10 Motion of projectiles and rockets
- E15 Motion of a general rigid body
- E20 Perturbation methods for Euler's equations
- E25 Poincaré method
- E99 None of the above, but in this section

70Fxx Dynamics of a system of particles

- F05 Two-body problem
- F10 *n*-body problem
- F15 Celestial mechanics
- F20 Holonomic systems
- F25 Nonholonomic systems
- F30 Impulsive motion
- F35 Collisions
- F99 None of the above, but in this section

70Gxx General representation of dynamical systems

- G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20.]
- G10 Generalized coordinates
- G15 Space of events
- G20 Impulse-energy space
- G25 Configuration space
- G30 State space
- G35 Phase space

G99 None of the above, but in this section**70Hxx Hamiltonian mechanics**

- H05 Hamilton's equations
- H10 Liouville's theorem
- H15 Canonical transformations
- H20 Hamilton-Jacobi equations
- H25 Variational methods
- H99 None of the above, but in this section

70Jxx Linear vibration theory

- J05 Finite degree of freedom systems
- J10 Normal modes of vibrations
- J15 Conservative systems
- J20 Nonconservative systems
- J25 Stability of oscillatory motions
- J99 None of the above, but in this section

70Kxx Nonlinear oscillations

- K05 Phase plane analysis
- K10 Limit cycles
- K15 Ljapunov theorems
- K20 Stability
- K99 None of the above, but in this section

70L05 Random vibrations [See also 93Exx.]**70Mxx Orbital mechanics**

- M05 Satellite problems
- M10 Orbital stability
- M99 None of the above, but in this section

70N05 Exterior ballistics**70P05 Variable mass, rockets****73—XX MECHANICS OF SOLIDS**

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

73A05 Axiomatics**73Bxx Continuum mechanics [For fluids, see 76Axx.]**

- B05 Constitutive equations
- B10 Isotropic functionals
- B15 Rotational groups [See also 22Exx.]
- B20 Simple materials
- B25 Multipolar stress theory
- B30 Thermodynamics of solids [For gases and fluids, see 80—XX.]
- B99 None of the above, but in this section

73Cxx Linear elasticity [For the biharmonic equation, see 31B30; for acoustics, see 76Q05.]

- C05 Stress functions
- C10 Saint-Venant's principle
- C15 Uniqueness theorems
- C20 Strain energy methods
- C25 Thermal stress problems
- C30 Anisotropic bodies
- C35 Mixed boundary value problems [See also 45F05.]
- C99 None of the above, but in this section

73Dxx Wave propagation in solids

- D05 Impact and explosion problems [See also 76L05.]
- D10 Integral transforms
- D15 Dilatational and shear waves
- D20 Surface waves

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

D25	Wave diffraction and dispersion	76-XX	FLUID MECHANICS { For general continuum mechanics, see 73Bxx. }
D99	None of the above, but in this section	—00	Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
73Exx	Plasticity	—01	Elementary exposition (collegiate level)
E05	Yield criteria and flow rules	—02	Advanced exposition (research surveys, etc.)
E10	Method of successive approximations	—03	Historical
E15	Slip-line theory	—04	Explicit machine computation and programs (not the theory of computation or programming)
E20	Limit analysis	76Axx	Constitutive equations { See also 35L65. }
E25	Creep	A05	Non-Newtonian fluids
E99	None of the above, but in this section	A10	Viscoelastic fluids
73Fxx	Viscoelasticity	A99	None of the above, but in this section
F05	Creep and relaxation functions	76Bxx	Incompressible, inviscid fluids, potential theory
F10	Correspondence principle	B05	Airfoil theory
F15	Time dependent boundary value problems	B10	Jets and cavities, free-streamline theory, water-entry problems, hydrofoil theory
F20	Aging of materials	B15	Water waves, gravity waves; dispersion and diffraction, nonlinear interaction
F25	Environmental-dependent materials	B20	Ship waves
F99	None of the above, but in this section	B25	Solitary and cnoidal waves
73Gxx	Finite deformations	B99	None of the above, but in this section
G05	Finite elasticity	76Cxx	Incompressible inviscid fluids, vorticity flows
G10	Strain energy functions	C05	Vorticity flows
G15	Finite viscoelasticity	C10	Internal waves
G20	Metal forming problems	C15	Atmospheric waves
G99	None of the above, but in this section	C20	Rosby waves
73Hxx	Elastic stability	C99	None of the above, but in this section
H05	Buckling	76Dxx	Incompressible viscous fluids
H10	Dynamic stability	D05	Navier-Stokes equations [See also 35Q10.]
H99	None of the above, but in this section	D10	Boundary-layer theory
73Jxx	Aeroelasticity	D15	Boundary-layer separation and re-attachment
J05	Interaction of aerodynamics and elasticity	D20	Higher-order effects in boundary layers
J10	Vibrations, flutter	D25	Wakes and jets
J15	Divergence	D30	Singular perturbation problems
J99	None of the above, but in this section	D99	None of the above, but in this section
73Kxx	Structural mechanics	76Exx	Hydrodynamic stability
K05	Beams, columns	E05	Stability of parallel flows
K10	Plates	E10	Inertial instability
K15	Membranes, shells	E15	Convective instability
K20	Composite structures	E20	Instability of geophysical and astrophysical flows
K25	Finite element methods	E25	Magnetohydrodynamic and electrohydrodynamic instabilities
K99	None of the above, but in this section	E30	Nonlinear effects
73Lxx	Theory of shells	E99	None of the above, but in this section
L05	Non-euclidean geometry, tensorial methods [See also 53A45.]	76F05	Turbulence { See also 60Gxx, 60Jxx. }
L10	Anisotropic shells	76Gxx	Subsonic flows
L15	Shell dynamics	G05	Hodograph methods
L99	None of the above, but in this section	G10	Kármán-Tsien approximation
73Mxx	Fractural mechanics	G15	Iterative methods
M05	Brittle fracture, cracks	G20	Free-streamline theory
M10	Fatigue	G99	None of the above, but in this section
M15	Ductile fracture	76H05	Transonic flows, limit lines
M20	Material instability	76Jxx	Supersonic flows
M99	None of the above, but in this section	J05	Hodograph methods
73Nxx	Geophysical solid mechanics { See also 86-XX. }	J10	Method of characteristics
N05	Global dynamics	J99	None of the above, but in this section
N10	Earthquake problems	76K05	Hypersonic flows
N99	None of the above, but in this section	76L05	Shock waves and blast waves { See also 73D05. }
73Pxx	Biomechanics of solids	76M05	Nonhomentropic flows of compressible fluids
P05	Mathematical models of biological materials		
P10	Mechanics response		
P99	None of the above, but in this section		
73Q05	Soil mechanics		
73R05	Electromagnetic elasticity		
73Sxx	Micromechanics of solids		
S05	Dislocation theory		
S99	Other micromechanics		

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 76N05 Boundary-layer theory of compressible fluids
- 76P05 Rarefied gas flows, Boltzmann equation [See also 82A05.]
- 76Q05 Hydrodynamic sound, acoustics
- 76Rxx Diffusion and convection [See also 60J60.]
 - R05 Forced convection
 - R10 Free convection
 - R99 None of the above, but in this section
- 76S05 Flows in porous media
- 76T05 Two-phase and multiphase flows
- 76U05 Rotating fluids
- 76V05 Stratified fluids
- 76W05 Magnetohydrodynamics and electrohydrodynamics
- 76X05 Ionized gas flow in electromagnetic fields
- 76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30.]
- 76Zxx Biological fluid mechanics
 - Z05 Physiological flows
 - Z10 Biopropulsion in water and in air
 - Z99 None of the above, but in this section

78—XX OPTICS, ELECTROMAGNETIC THEORY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Geometric optics
- A10 Physical optics
- A15 Electron optics
- A20 Space charge waves
- A25 Electromagnetic theory
- A30 Electro- and magnetostatics
- A35 Motion of charged particles
- A40 Waves and radiation
- A45 Diffraction, scattering [For WKB methods, see also 34E20.]
- A50 Antennas, wave-guides
- A55 Technical applications
- A57 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

80—XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER

[For thermodynamics of solids, see 73B30.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Foundations
- A10 Classical thermodynamics
- A15 Thermodynamics of mixtures
- A20 Heat and mass transfer

- A25 Combustion, interior ballistics
- A30 Chemical kinetics
- A35 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)

81—XX QUANTUM MECHANICS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A06 Relativistic theory
- A09 Selfadjoint operator theory in quantum mechanics, essential selfadjointness of the Hamiltonian
- A10 Perturbation theory
- A12 Logical foundations of quantum mechanics
- A15 Feynman integrals and graphs, applications of algebraic topology and algebraic geometry to these problems
- A17 Axiomatic quantum field theory; operator algebras
- A18 Constructive quantum field theory; models of quantum fields
- A19 Renormalization theory
- A20 Commutation relations
- A24 Bethe-Salpeter equation
- A27 Current algebra
- A30 Broken symmetries
- A33 Covariant wave equations
- A36 Strong interaction
- A39 Electromagnetic interaction
- A42 Weak interaction
- A45 Potential scattering theory [For WKB methods, see also 34E20.]
- A48 S-matrix theory and other scattering theory
- A51 Dispersion theory
- A54 Applications of group theory to elementary particles
- A57 Other elementary particle theory
- A60 Applications of group theory to nuclear physics
- A63 Other nuclear physics
- A66 Applications of group theory to atomic physics
- A69 Other atomic physics
- A72 Applications of group theory to molecular physics
- A75 Other molecular physics
- A78 General group representation motivated by physics but not covered by 81A54, 81A60, 81A66, 81A72, representations of concrete classical groups such as $SL(n, C)$, $U(p, q)$, etc.
- A81 Quantum mechanics of many-body systems
- A84 Superconductivity and superfluidity

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

A87 Mathematically heuristic quantum mechanics (must also be assigned at least one other classification number in this section)

82—XX STATISTICAL PHYSICS, STRUCTURE OF MATTER

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Mathematical general statistical mechanics
- A15 Mathematical quantum statistical mechanics
- A25 Phase transitions
- A30 Statistical thermodynamics [See also 80—XX.]
- A35 Irreversible thermodynamics
- A40 Kinetic theory of gases
- A45 Plasma
- A50 Liquids
- A55 Solids
- A60 Crystals
- A65 Metals
- A70 Transport processes [See also 85A25.]
- A75 Nuclear reactor theory
- A77 Mathematically heuristic statistical physics (must also be assigned at least one other classification number in this section)

83—XX RELATIVITY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

83A05 Special relativity

83B05 Observational and experimental questions

83Cxx General relativity

- C05 Einstein's equations
- C10 Equations of motion
- C15 Closed form solutions
- C20 Classes of solutions
- C25 Approximation procedures, weak fields
- C30 Asymptotic procedures (radiation, news functions, etc.)
- C35 Gravitational waves
- C40 Groups of motions, invariance groups, observation laws, etc.
- C45 Quantization of the gravitational field
- C50 Electromagnetic fields
- C55 Hydrodynamics [See also 76Y05.]
- C99 None of the above, but in this section

83D05 Relativistic gravitational theories other than Einstein's

83Exx Unified field theories

E05 Geometrodynamics

E10 Asymmetric field theories

E15 Five- and higher-dimensional theories

E99 None of the above, but in this section

83F05 Cosmology

85—XX ASTRONOMY AND ASTROPHYSICS [For celestial mechanics, see 70F15.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Galactic and stellar dynamics
- A10 Astronautics
- A15 Stellar structure
- A20 Stellar atmospheres
- A25 Radiative transfer
- A30 Hydrodynamic and hydromagnetic problems [See also 76Y05.]
- A35 Statistical astronomy
- A40 Cosmology [For relativistic cosmology, see 83F05.]
- A45 Radio astronomy

86—XX GEOPHYSICS [See also 73Nxx, 76U05, 76V05.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Hydrology, hydrography, oceanography
- A10 Meteorology
- A15 Seismology
- A20 Potentials, prospecting
- A25 Geo-electricity and geomagnetism
- A30 Geodesy, mapping problems
- A35 Atmospheric physics

90—XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 90Axx Mathematical economics** [For econometrics, see 62P20.]
- A05 Decision theory [See also 62Cxx.]
 - A10 Utility theory
 - A15 Economic models
 - A20 Economic time series analysis [See also 62M10.]
 - A99 None of the above, but in this section
- 90Bxx Operations research and management science**
- B05 Logistics, inventory, storage
 - B10 Flows in networks, deterministic
 - B15 Flows in networks, probabilistic
 - B20 Highway traffic
 - B25 Reliability and maintenance [See also 60K20, 62N05.]
 - B30 Production theory
 - B35 Scheduling theory
 - B40 Search theory
 - B99 None of the above, but in this section
- 90Cxx Mathematical programming** [For dynamic programming, see 49Cxx; for papers emphasizing calculus of variations or involving abstract spaces, see 49Dxx.]
- C05 Linear programming
 - C10 Integer programming
 - C15 Stochastic programming
 - C20 Quadratic programming
 - C25 Convex programming
 - C30 Nonlinear programming
 - C35 Network programming, programming in networks
 - C40 Markov programming
 - C45 Markov renewal programming
 - C50 Applications of mathematical programming
 - C99 None of the above, but in this section
- 90Dxx Game theory**
- D05 2-person zero-sum games
 - D10 *n*-person games, noncooperative
 - D12 *n*-person games, cooperative, solution concepts
 - D13 Games for a continuum of players
 - D15 Multistage games, stochastic [See also 93E05.]
 - D20 Multistage games, recursive
 - D25 Differential games
 - D30 Utility theory [See also 90A10.]
 - D35 Decision theory [See also 62Cxx, 90A05.]
 - D40 Game theory models [See also 65Cxx, 68A55.]
 - D45 Applications of game theory
 - D99 None of the above, but in this section

92—XX BIOLOGY AND BEHAVIORAL SCIENCES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Biology [See also 73Pxx, 76Zxx.]
- A10 Genetics

- A15 Population dynamics, epidemiology
- A20 Sociology
- A25 Psychology

93—XX SYSTEMS, CONTROL [For optimal control (nonstochastic), see 49—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 01 Elementary exposition (collegiate level)
 - 02 Advanced exposition (research surveys, etc.)
 - 03 Historical
 - 04 Explicit machine computation and programs (not the theory of computation or programming)
- 93Axx General**
- A05 Axiomatic system theory
 - A10 General systems
 - A15 Large scale systems (approximation techniques)
 - A99 None of the above, but in this section
- 93Bxx Controllability, observability, and system structure**
- B05 Controllability, observability, definitions and criteria
 - B10 Canonical structure
 - B15 Realizability of systems from input-output data
 - B20 Minimal systems representations
 - B25 Algebraic theory of time-invariant systems
 - B30 System identification
 - B35 Sensitivity
 - B99 None of the above, but in this section
- 93Cxx Control systems, guided systems**
- C05 Linear
 - C10 Nonlinear
 - C15 Systems governed by ordinary differential equations
 - C20 Systems governed by partial differential equations
 - C22 Systems governed by integral equations
 - C25 Systems in abstract spaces
 - C30 Systems governed by functional relations other than differential or integral equations
 - C40 Adaptive
 - C45 Time-invariant
 - C50 Time-dependent
 - C55 Discrete-time
 - C60 Continuous-time
 - C99 None of the above, but in this section
- 93Dxx Stability**
- D05 Ljapunov stability
 - D10 Popov-type stability of feedback systems
 - D15 Stabilization of systems by feedback
 - D99 None of the above, but in this section
- 93Exx Stochastic systems and control**
- E05 Stochastic games, stochastic differential games
 - E10 Estimation problems (filtering, prediction, data smoothing, system identification)
 - E15 Stochastic stability
 - E20 Optimal stochastic control (continuous parameter)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- E25 Computational methods
E99 None of the above, but in this section

94-XX INFORMATION AND COMMUNICATION, CIRCUITS,

AUTOMATA [For papers in pattern recognition, linguistics and formal languages, see 68A30, 68A45.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Communication theory [See also 60J30.]
- A10 Coding theory
- A15 Information theory [See also 62B10.]
- A20 Circuits, networks; applications of graph theory and Boolean algebra
- A25 Sequential machines
- A30 Automata, general [See also 02F10, 18B20, 68A25.]
- A35 Probabilistic automata

96-XX MATHEMATICAL EDUCATION, ELEMENTARY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 03 Historical

96Axx Curriculum development

- A05 Arithmetic
- A10 Algebra
- A15 Geometry
- A99 None of the above, but in this section

96Bxx Instructional techniques

- B05 Individual differences
- B10 Discovery method
- B15 Laboratory method
- B20 Computer assisted instruction
- B25 Programmed materials
- B30 Manipulative materials (Cuisenaire rods, etc.)
- B99 None of the above, but in this section

96C05 Testing

96D05 Enrichment

96E05 Superior students

96F05 Slow learners

96G05 Psychological studies

96H05 Teacher training

97-XX MATHEMATICAL EDUCATION, SECONDARY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

-03 Historical

97Axx Curriculum development

- A05 Arithmetic
- A10 Algebra
- A15 Geometry
- A20 Calculus and analysis
- A25 Probability and statistics
- A30 Computer mathematics and numerical analysis
- A35 Applied mathematics
- A99 None of the above, but in this section

97Bxx Instructional techniques

- B05 Individual differences
- B10 Discovery method
- B15 Laboratory method
- B20 Computer assisted instruction
- B25 Programmed materials
- B30 Media and learning aids
- B99 None of the above, but in this section

97C05 Testing

97D05 Enrichment

97E05 Superior students

97F05 Slow learners

97G05 Psychological studies

97H05 Teacher training

98-XX MATHEMATICAL EDUCATION, COLLEGIATE

(including two-year college)

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 03 Historical

98Axx Curriculum development

- A05 Arithmetic
- A10 Algebra
- A15 Geometry
- A20 Calculus and analysis
- A25 Probability and statistics
- A30 Computer mathematics and numerical analysis
- A35 Applied mathematics
- A99 None of the above, but in this section

98Bxx Instructional techniques

- B05 Individual differences
- B10 Discovery method
- B15 Laboratory method
- B20 Computer assisted instruction
- B25 Programmed materials
- B30 Media and learning aids
- B99 None of the above, but in this section

98C05 Testing

98D05 Enrichment

98E05 Superior students

98F05 Slow learners

98G05 Psychological studies

98H05 Teacher training

69. GENERAL APPLIED MATHEMATICS

00 General

70. MECHANICS OF PARTICLES AND SYSTEMS

00 General

- 15 Linear and multilinear algebra, matrix theory
- 20 Group theory and generalizations
- 22 Topological groups and Lie theory
- 30 Functions of a complex variable
- 33 Special functions
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 46 Functional analysis
- 49 Calculus of variations, optimal control
- 50 Geometry
- 53 Differential geometry
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 65 Numerical methods

73. ELASTICITY, PLASTICITY

00 General

- 05 Combinatorial theory, graph theory
- 15 Linear and multilinear algebra, matrix theory
- 17 Nonassociative rings and algebras
- 30 Functions of a complex variable
- 31 Potential theory
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximation and expansions
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 53 Differential geometry
- 54 General topology
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 62 Statistics
- 65 Numerical methods

76. FLUID MECHANICS, ACOUSTICS

00 General

- 22 Topological groups and Lie theory
- 30 Functions of a complex variable
- 31 Potential theory
- 33 Special functions
- 34 Ordinary differential equations
- 35 Partial differential equations
- 39 Finite differences and functional equations
- 41 Approximations and expansions
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 53 Differential geometry
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 62 Statistics
- 65 Numerical methods

78. OPTICS, ELECTROMAGNETIC THEORY

00 General

- 20 Group theory and generalizations
- 22 Topological groups and Lie theory
- 30 Functions of a complex variable
- 31 Potential theory
- 32 Several complex variables
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 42 Fourier Analysis
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control

53 Differential geometry

55 Algebraic topology

60 Probability

62 Statistics

56 Numerical methods

80. CLASSICAL THERMODYNAMICS, HEAT TRANSFER

00 General

- 15 Linear and multilinear algebra, matrix theory
- 20 Group theory and generalizations
- 30 Functions of a complex variable
- 31 Potential theory
- 33 Special functions
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 53 Differential geometry
- 60 Probability
- 65 Numerical methods

81. QUANTUM MECHANICS

00 General

- 02 Logic and foundations
- 05 Combinatorial theory, graph theory
- 06 Order, lattices, ordered algebraic structures
- 15 Linear and multilinear algebra, matrix theory
- 16 Associative rings and algebras [See also 13.00]
- 17 Non-associative rings and algebras
- 22 Topological groups and Lie theory
- 28 Measure and integration
- 30 Functions of a complex variable
- 31 Potential theory
- 32 Several complex variables
- 33 Special functions
- 34 Ordinary differential equations
- 35 Partial differential equations
- 40 Sequences, series, summability
- 41 Approximations and expansions
- 42 Fourier analysis
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control (See also 93.40)
- 50 Geometry
- 53 Differential geometry
- 55 Algebraic topology
- 57 Topology and geometry of manifolds
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 62 Statistics
- 65 Numerical methods

82. STATISTICAL PHYSICS, STRUCTURE OF MATTER

00 General

- 05 Combinatorial theory, graph theory
- 06 Order, lattices, ordered algebraic structures
- 15 Linear and multilinear algebra, matrix theory
- 20 Group theory and generalizations
- 22 Topological groups and Lie theory
- 26 Functions of real variables
- 28 Measure and integration
- 30 Functions of a complex variable
- 32 Several complex variables
- 33 Special functions
- 34 Ordinary differential equations
- 35 Partial differential equations
- 40 Sequences, series, summability
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 50 Geometry (See also 14.00)
- 53 Differential geometry
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 62 Statistics
- 65 Numerical methods

83. RELATIVITY

- 00 General
- 01 History and biography
- 02 Logic and foundations
- 10 Theory of numbers
- 31 Potential theory
- 34 Ordinary differential equations
- 35 Partial differential equations
- 39 Finite differences and functional equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 50 Geometry
- 52 Convex sets and geometric inequalities
- 53 Differential geometry
- 54 General topology
- 57 Topology and geometry of manifolds
- 58 Global analysis, analysis on manifolds
- 60 Probability

85. ASTRONOMY AND ASTROPHYSICS

- 30 Functions of a complex variable
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 45 Integral equations
- 49 Calculus of variations, optimal control
- 53 Differential geometry
- 60 Probability
- 62 Statistics
- 65 Numerical methods

86. GEOPHYSICS

- 30 Functions of a complex variable
- 31 Potential theory
- 35 Partial differential equations
- 42 Fourier analysis
- 52 Convex sets and geometric inequalities
- 53 Differential geometry
- 60 Probability
- 65 Numerical methods

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Each review is listed under each of the classification numbers that have been assigned to it; secondary classifications are indicated by the review number's being in parentheses. Each review is also listed under each author; only one author is given in each entry but the fact of multiple authorship is indicated by *et al.* following the name of the author listed. The names of persons associated with a reviewed item in a capacity other than that of author (e.g., editor, translator, subject of a biography, etc.) are given in parentheses. Items without indicated authors are listed alphabetically, in each section, following the items with authors. An asterisk (*) preceding a review number indicates that the item in question is a book.

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Ludwig (*2839)
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- History of probability (*1889)
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- Jönsson, Bjarni 7988
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-06 Collections of papers; proceedings of conferences

- General algebra (*10171)
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E20 Integral dependence, integral closure; integrally closed rings, related rings (Japanese, etc.)

- | | | | |
|----------------|-------|---------------------------|------|
| Querré, Julien | 12823 | Colloque d'Algèbre Commu- | |
| Saydi, Hamet | 3142 | tative (Rennes, 1972) | 3142 |

E25 Polynomials over commutative rings

- | | | | |
|--------------------------|---------|---------------------------|-----|
| Flamant, Maurice; et al. | (12805) | Nagahara, Takasi; et al. | 474 |
| Henoud, Lella; et al. | (12805) | Nakaïima, Atsushi; et al. | 474 |

E99 None of the above, but in this section

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|-----------------------|-------|---------------------|-------|
| Brewer, J. W.; et al. | 10316 | Lady, E. L.; et al. | 10316 |
| Costa, E. L.; et al. | 10316 | | |

13Cxx Theory of modules and ideals

C05 Structure, classification theorems

- | | | | |
|-------------------|-------|-------------------|-------|
| Anderson, D. D. | 12824 | Ravel, J. | 3144 |
| Davison, T. M. K. | 475 | Vaughan, Nick H. | 10317 |
| Harui, Hideki | 5573 | Zameeruddin, Qazi | (609) |
| Jebli, Ahmed | 3143 | Zatini, Elsa | 5575 |

C10 Special types (projective, injective, free, flat, torsion, reflexive, etc.) [See also 18G05.]

- | | | | |
|---------------------|---------|---------------------------|---------|
| Grimaldi, Ralph P. | 12825 | Shinagawa, Mitsuo; et al. | |
| Head, Tom | (*3230) | | 12826 |
| Hochster, M. | 10318 | Singh, Surjeet; et al. | 10321 |
| Lazard, Daniel | 8093 | Svan, Richard G. | (12856) |
| Nguyen-Trong-Kham | 3145 | Svan, Richard G.; et al. | (12857) |
| Nishi, Mico; et al. | 12826 | Towber, Jacob; et al. | (12857) |
| Ohl, Takeo | 8094 | Treger, R. B. | 3146 |
| Quentel, Yann | 10319 | Zameeruddin, Qazi; et al. | 10321 |
| Rososek, S. K. | 10320 | Colloque d'Algèbre Commu- | |
| | | tative (Rennes, 1972) | 8093 |

C15 Dimension theory, depth related rings (catenary, etc.)

- | | | | |
|--------------------------|-------|-----------------------------|-------|
| Arnold, Jimmy T.; et al. | 476 | Sharp, Rodney Y. | 5577 |
| Flexor-Mangeney, | | Wiegand, Roger | 10323 |
| Marguerite | 8095 | Colloque d'Algèbre Commu- | |
| Gilmer, Robert; et al. | 476 | tative (Rennes, 1972) | 8095 |
| Parker, Tom | 10322 | Colloque d'Algèbre non Com- | |
| Ravel, Jacques | 5576 | mutative (Lyon, 1973) | 5576 |

C99 None of the above, but in this section

- | | | | |
|-------------------------|---------|-----------------------------|-------|
| Amin, I. A. | 3147 | Report of Algebra Group | |
| Berg, Lothar | (11142) | (Queen's Univ., Kingston, | |
| Dress, Andreas; et al. | 5578 | Ont., 1973/1974) | 12827 |
| Gabel, M. R.; et al. | 12827 | Rings, modules and radicals | |
| Gerasim, A. V.; et al. | 12827 | (Colloq., Keszthely, 1971) | |
| Johnson, Johnny A. | 477 | | 3147 |
| Kr  mer, Helmut; et al. | 5578 | | |

13Dxx Homological methods (For cohomology of rings and algebras, see 18H20.)

- | | |
|------------------|-------|
| Hochster, Melvin | *8096 |
|------------------|-------|

D05 Homological dimension

- | | | | |
|---------------------|---------|--------------------|---------|
| Peskine, C.; et al. | (10330) | Szpiro, L.; et al. | (10330) |
|---------------------|---------|--------------------|---------|

D15 Class group, Grothendieck group, K-theory [See also 18F25.]

- | | | | |
|----------------------------|-------|----------------------------|-------------|
| Dennis, R. Keith; et al. | 8097 | Pedri  ni, Claudio; et al. | 12829 |
| Garfinkel, Gerald S. | 12828 | Stein, Michael R.; et al. | 8097 |
| McKerrow, A. S. | 8098 | Algebraic K-theory, II: | |
| Murthy, M. Pavaman; et al. | | "Classical" algebraic | |
| | 12829 | K-theory and connections | |
| Pedri  ni, Claudio | 8099 | with arithmetic | 8099, 12829 |

D99 None of the above, but in this section

- | | | | |
|------------------------|-------|-----------------------------|------|
| Bertin, Jos   | 5579 | Vigu  -Poirrier, Micheline; | |
| Cha, Hyung Koo; et al. | 8099 | et al. | 3148 |
| Heydemann-Tocherkez, | | Yun, Dall Sun; et al. | 8099 |
| Marie-Claude; et al. | 3148 | Colloque d'Alg  bre Commu- | |
| Northcott, D. G. | 5580 | tative (Rennes, 1972) | 5579 |
| Paugam, Michel | 10324 | Symposia Mathematica, | |
| | | Vol. VIII | 5580 |

13Exx Chain conditions

E05 Noetherian rings

- | | | | |
|--------------------|---------|--------------|-----|
| Anderson, D. D. | (12631) | Zink, Thomas | 478 |
| Johnson, Johnny A. | (10179) | | |

E10 Artin rings, finite dimensional algebras

- | | | | |
|----------------------|------|------------------------|------|
| Naoum, A. G.; et al. | 3149 | Salloum, R. M.; et al. | 3149 |
|----------------------|------|------------------------|------|

E99 None of the above, but in this section

- | | | | |
|--------------------------|------|-----------------------|-----|
| Arnold, Jimmy T.; et al. | 8101 | Report of the Algebra | |
| Gilmer, Robert; et al. | 8101 | Group | 479 |
| Ribenboim, P. | 479 | | |

13Fxx Arithmetic rings

F05 Dedekind and Pr  fer rings and their generalizations

- | | | | |
|-----------------------------|------------|--------------------------|-------|
| Gilmer, Robert; et al. | 5581 | Moore, M. E. | 5582 |
| Hays, James H. | 12830 | Salce, Luigi | 5583 |
| Hoffmann, Joseph F.; et al. | | Svan, Richard G.; et al. | 12857 |
| | 5581 | Towber, Jacob; et al. | 12857 |
| Knopfmacher, John | (388, 389) | Valabrega, Paolo | 12831 |

F10 Principal ideal rings

- | | | | |
|----------------------|---------|-----------------------|------|
| Heitmann, Raymond C. | 5584 | Toti Rigatelli, Laura | 3150 |
| Kutzko, Philip C. | (12802) | Williams, Kenneth S. | 3151 |

F15 Factorial rings, unique factorisation domains

- | | | | |
|----------------------------|-------|----------------------------|-------|
| Childs, Lindsay N.; et al. | 8102 | Algebraic geometry (Proc. | |
| Garfinkel, Gerald; et al. | 8102 | Sympos. Pure Math., | |
| Hornell, James | 12832 | Vol. 29) | 10325 |
| Kalajd  i  , Gojko | 12833 | Colloque d'Alg  bre Commu- | |
| Lipman, Joseph | 10325 | tative (Rennes, 1972) | 3152 |
| Orecchia, Ferruccio | 12834 | Papers presented at the | |
| Orzech, Morris; et al. | 8102 | Balkan Mathematical Con- | |
| Pirtle, Elbert M. | 10326 | gress, Fifth (Belgrade, | |
| Quentel, M. | 3152 | 1974) | 12833 |
| Stagnaro, Ezio | 8103 | | |

F20 Polynomial rings [See also 10M05.]

- | | | | |
|----------------|--------|-----------------------------|-------|
| Gilmer, Robert | 3153 | Rings, modules and radicals | |
| N  bauer, W. | 12835 | (Colloq., Keszthely, 1971) | |
| Schweizer, Urs | (3166) | | 12835 |

F99 None of the above, but in this section

- | | |
|-----------------|------|
| Kle  ner, G. B. | 5585 |
|-----------------|------|

13C05 Integral domains

- | | | | |
|--------------------------|------------|----------------------------|-------|
| Arnold, Jimmy T.; et al. | 8104 | Pacholke, Kenneth | 10328 |
| Dobbs, David E. | 480 | Sheldon, Philip B.; et al. | 8104 |
| Fujita, Kazunori | 3154, 5586 | Warner, Hoyt; et al. | 12836 |
| Grams, Anne; et al. | 12836 | Wiegand, Sylvia | 5587 |
| Jacobson, David | 10327 | | |

13Hxx Local rings and semilocal rings

H05 Regular local rings

- | | | | |
|---------------------|----------|-------------------------------|------------|
| Berndt, Rolf | 481, 482 | Valabrega, Paolo | 483 |
| Brodsmann, Markus | 10329 | Number theory, algebraic geo- | |
| Jinnah, M. I. | 12837 | metry and commutative | |
| Matsumura, Hideyuki | 3155 | algebra, in honor of Yasuo | |
| Nomura, Masayuki | 3156 | Akizuki | 3155, 3156 |

H10 Special types (Macaulay, Gorenstein, etc.)

- | | | | |
|-------------------------|-------|----------------------|---------|
| Aoyama, Y  ichi; et al. | 484 | Peskine, C.; et al. | (10330) |
| Fossum, Robert; et al. | 12839 | Reiten, Idun; et al. | 12839 |
| Foxby, Hans-Bj  rn | 12838 | Stanley, Richard P. | 486 |
| Got  , Shir  ; et al. | 484 | Szpiro, L.; et al. | (10330) |
| Greco, Silvio | 485 | Teter, William | 3157 |
| Matsuoka, Tadayuki | 5588 | Valabrega, Paolo | 8105 |

H15 Multiplicity theory and related topics

- | | | | |
|-------------------|------|---------------------|--------|
| Gulliksen, Tor H. | 487 | Ratliff, L. J., Jr. | (8111) |
| Kirby, D. | 3158 | Renschuch, Bodo | (3185) |

H99 None of the above, but in this section

- | | | | |
|-------------------------|--------|-----------------------------|-------|
| Greenberg, Brian | 488 | Mishimura, Jun-ichi; et al. | (462) |
| Kanzaki, Teruo; et al. | (8091) | Radu, Nicolae | 3159 |
| Kitamura, Kasuo; et al. | (8091) | Suzuki, Satoshi; et al. | (462) |

13Jxx Topological rings (For ordered rings, see 06A70; see also 16A80.)

J05 Power series rings

- | | | | |
|---------------------------|--------|----------------|---------|
| Delange, Hubert; et al. | (8829) | Jacob, G  rard | (12040) |
| Gatesoupe, Michel; et al. | (8829) | Kim, Joong Ho | (5662) |

J05 Continued

- Risler, Jean-Jacques; et al. 489
 Roby, Norbert 3160
 Tyc, A. 12840
 Valabrega, Paolo (12852)
 Comptes-Rendus des Journées
 d'Algèbre Pure et Appli-
 quée 3160

- Comptes Rendus des Journées
 Mathématiques de la Soci-
 été Mathématique de France
 (Univ. Sci. Tech.
 Langue doc, Montpellier,
 1974) (12040)
 Fonctions de plusieurs
 variables complexes (Sém.
 François Morguet,
 1970-1973) 489

J15 Henselian rings

- Greco, S. 3161
 Rivet, R. 5589
 Categories and commutative
 algebra (C.I.M.E., 1971) 3161
 Colloque d'Algèbre Commu-
 tative (Rennes, 1972) 5589

J20 Global topological rings

- Bel'nov, V. K. 5590

13K05 Witt vectors and related rings

- Poletti, Mario (5609)

13L05 Applications of logic to commutative algebra

- Sabbagh, Gabriel (7849)

14--XX ALGEBRAIC GEOMETRY

- (Hirsch, K. A.) *3163 Šafarevič, I. R. *3162,*3163

-01 Elementary exposition (collegiate level)

- Laborda González, M. Jesús Theory of schemes 490,491
 Rodríguez González, Nieves 491

-06 Collections of papers; proceedings of conferences

- (Birch, B. J.) (*12708) Proceedings of the Interna-
 (Kuyk, W.) (*12708) tional Summer School
 (Oort, F.) *3164 (Univ. Antwerp, Antwerp,
 Algebraic geometry, Oslo 1970 1972), Vol. 4 (*12708)
 *3164
 Modular functions of one
 variable, IV (*12708) Proceedings of the Nordic
 Nordic Summer School in Math-
 ematics, Fifth (Oslo, 1970) 1970) *3164
 *3164

14Axx Foundations

A05 Relevant commutative algebra [See also 13-XX.]

- Matsumura, Hideyuki (3155) Number theory, algebraic geo-
 Nesselmann, Dieter 492 metry and commutative
 Nomura, Masayuki (3156) algebra, in honor of
 Yasuo Akizuki (3155,3156)

A10 Varieties

- Galbiati, M.; et al. 493 Tognoli, A.; et al. 493

A15 Schemes

- Maroscia, Paolo 3165

A20 Generalisations (algebraic spaces, motifs)

- Schlomluk, Dana J. (3252)

A25 Elementary questions

- Goelman, Don 494 Fonctions de plusieurs varia-
 Risler, Jean-Jacques (489) bles complexes (Sém.
 Schweiser, Urs 3166 François Morguet,
 Weispfenning, Volker (5296) 1970-1973) (489)
 Zatini, Elsa (5575)

14Bxx Local theory

- Hochster, Melvin (*8096)

B05 Singularities [See also 14E15.]

- A'Campo, Norbert 8106 Di Stefano, F.; et al. (8480)
 Bădescu, Lucian 3167 Durfee, Alan H. (11531)
 Banchoff, Thomas F. (6826) Greuel, G. -M.; et al. (3515)
 Brieskorn, E.; et al. (3515) Iomdin, I. N. 3169
 Burns, D. (926) Lamotke, K. (1844)
 Cheniot, D. 3168 Lascoux, Jean (12844)
 Church, P. T.; et al. (1844) Lê Dũng Tráng (48458)

- Looijenga, Eduard 12841 Differential geometry
 Milnor, John (11546) (Proc. Sympos. Pure Math.,
 Pinkham, Henry C. (*12847) Vol. XXVII, Part 1) (11546)
 (Risler, J. J.) 5591 Manifolds-Tokyo 1973 (3515)
 Saito, Kyoji (12845,12846) Quelques journées singu-
 Zanooni, S.; et al. (8480) lières (12846)
 Zariski, Oscar 5591 Singularités à Cargèse
 (Algebraic geometry (Proc. (1972) 5591, (12844,12845)
 Sympos. Pure Math.,
 Vol. 29) (11531)

B10 B10 Infinitesimal methods

- Washburn, Sherwood 8107

B15 Local cohomology [See also 18E20.]

- Peckins, C.; et al. 10330 Sapiro, L.; et al. 10330

B99 None of the above, but in this section

- Efroymsen, G. 495 Sibuya, Yasutaka; et al. (8508)
 Hironaka, Heisuke 10331 Algebraic geometry (Proc.
 Kimura, Toshihisa; et al. (8508) Sympos. Pure Math.,
 Rohlin, V. A. (4286) Vol. 28) 10331

14Cxx Cycles and subschemes

C05 Parametrisation (Chow and Hilbert schemes)

- Altman, Allen B.; et al. (12843) Kleiman, Steven L.; et al. (12843)
 Borovskiy, Ju. E. 496
 El Zein, Fouad 3170 Seidenberg, A. 12842

C10 Equivalence relations

- Hartshorne, Robin 5592 Algebraic geometry (Proc.
 Hornell, James 5593 Sympos. Pure Math.,
 Vol. 29) 5592

C15 Rational equivalence rings, intersection theory

- Bloch, Spencer 8108

C20 Divisors, linear systems, Picard groups

- Godeaux, Lucien 5594,10332 Algebraic K-theory, II:
 Hornell, James (12832) "Classical" algebraic
 Kotil, O. A. 3171 K-theory and connections
 Lipman, Joseph (10325) with arithmetic (8099)
 Pedrini, Claudio (8090,8099)
 Algebraic geometry (Proc.
 Sympos. Pure Math., Vol.
 29) (10325)

C25 Zero-cycles

- Bloch, Spencer (8108)

C30 Transcendental methods, Hodge theory

- Angeniol, Bernard 497 Swinnerton-Dyer, H. P. F. 8109
 Cornalba, Maurizio; et al. (3505) Wells, R. O., Jr. (10699)
 Fujita, Takao (8110) Yamamoto, Shu-ichi 3172
 Griffiths, Phillip; et al. (3505) Algebraic geometry, Oslo
 (3502) 1970 8109
 Iitaka, Shigeru (3502) Différents aspects de la
 Lieberman, D.; et al. (8481) positivité 497
 Robba, P.; et al. 498 Manifolds-Tokyo 1973 (3502)
 Serres, J.-P.; et al. (8481) Value-distribution theory,
 Part A (10699)

C99 None of the above, but in this section

- Barlet, Daniel (5970) Fonctions de plusieurs varia-
 bles complexes (Sém.
 François Morguet, 1970-1973)
 (5970)

14Dxx Families, fibrations

D05 Structure of families (Picard-Lefschetz, Picard-
 Fuhs theory, etc.)

- A'Campo, Norbert (8106,12882) Levelt, Antonius; et al. 10333
 Altman, Allen B.; et al. 12843 Namikawa, Yukihiko; et al. 5595
 Brieskorn, E.; et al. (3515) Saito, Kyoji 12845,12846
 Durfee, Alan H. (10678) Ueno, Kenji; et al. 5595
 Gérard, Raymond; et al. 10333 Manifolds-Tokyo 1973 3515
 Gruel, G. -M.; et al. (3515) Quelques journées singu-
 Kleiman, Steven L.; 12843 lières (10680),12846
 Lascoux, Jean 12844 Singularités à Cargèse
 Lazzeri, F. (10680) (1972) 12844,12845
 Lê Dũng Tráng *8458

D15 Formal methods; deformations [See also 32Gxx.]

- Lax, R. P. (12864) Ploski, A. (3499)
 Looijenga, Eduard (12841) Riemenschneider, Oswald (3518)
 Pinkham, Henry C. (*12847) Washburn, Sherwood (8107)

D20 Algebraic moduli problems [For analytic moduli problems, see 32G13.]

- Białynicki-Birula, A. 499 Hirzebruch, F.; et al. 10238
 Borovskiy, Ju. E. (496) Langton, Stacy G. (510)
 Fujita, Takao 5596, 8110 Matsusaka, T. 501
 Hakim, Monique *500 Narasimhan, M. S.; et al. (509)
 Hammond, W. F.; et al. 10238 Ueno, Kenji (8482)
 Harder, G.; et al. (507) Manifolds—Tokyo 1973 (8482)

14Exx Mappings and correspondences

E05 Rational maps, birational correspondences

- Ciarrapico, Lucia Manna 502 Peklić, V. A. 10334
 Korcsak, Eugeniusz 12848 Zeuge, Jörn (5601)

E10 General correspondences

- Baldisserrri, Natalia 12849 Proceedings of the Annual
 Calero Rosillo, Gonzalo 503, (5571a-5571c) Conference of Spanish
 Čegodaev, A. I. 5597 Mathematicians, Eleventh
 Guidotti, Laura 5598 (Murcia, 1970) (5571a)
 Lewis, D. J. 12850 Proceedings of the
 Molinari, Loris 3173 Conference of Portuguese
 Ponarin, Ja. P. 5599 and Spanish Mathematicians,
 Roanes, Eugenio 12851 First (Lisbon, 1972) (5571c)
 Rollero, Aldo 504 Seminar on Modern Methods in
 Vituskin, A. G. 5600 Number Theory (Inst.
 Manifolds—Tokyo 1973 5600 Statist. Math., Tokyo,
 Proceedings of the Annual 1971) 12850
 Conference of Spanish
 Mathematicians, Tenth
 (La Laguna, 1969) 503

E15 Global theory of singularities, resolution

- Bădescu, Lucian 10335 Ratliff, L. J., Jr. 8111
 Fiorentini, M.; et al. 505 Seydi, Hamet 507
 Galbiati, M.; et al. (493) Tognoli, A.; et al. (493)
 Lascu, A. T.; et al. 505 Valabrega, Paolo 12852
 Mizutani, Hiroyuki 506

E20 Coverings, fundamental group

- Artin, M. 10336 Differentialgeometrie im
 Loday, Jean-Louis (4276) Großen (Ber. Tagung,
 Matsushima, Y. (924) Math. Forschungs-
 Algebraic K-theory, II: inst., Oberwolfach,
 "Classical" algebraic 1969) (924)
 K-theory and connections
 with arithmetic (4276)

E25 Embeddings

- Holme, Audun 508 Zeuge, Jörn 5601
 Matsuoaka, Tadayuki (5588)

E35 Results in dimension ≤ 3

- Piense, Ragni 10337

14Fxx Cohomology theory (See also 13Dxx, 18—XX.)

F05 Vector bundles, sheaves, related constructions

- Cavanaugh, Joseph M. (14044) Nielsen, H. A.; et al. 12854
 Dubois, Philippe; et al. 12853 Ramanathan, A. (5979)
 Hakim, Monique (*500) Roberts, L. 10339
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 Ilori, S. A.; et al. (8112) Algebraic K-theory, II:
 Ingleson, A. W.; et al. (8112) "Classical" algebraic K-
 Iversen, B.; et al. 12854 theory and connections
 Jarraud, Pierre; et al. 12853 with arithmetic 10339
 Kanevsky, Tamara 12855 Colloque d'Algèbre Commu-
 Langton, Stacy G. 510 tative (Rennes, 1972) (8093)
 Lascu, A. T.; et al. (8112) Quelques problèmes de
 Lazard, Daniel (8093) modules (Séminaire,
 Martin-Deschamps, Mireille 1971-1972) (3534)
 10338
 Narasimhan, M. S.; et al. 509

F10 Differentials and other special sheaves

- El Zein, Fouad (3170) Nielsen, H. Andreas 3174
 Hart, R. 5602 Suzuki, Satoshi (12820)

F15 Serre cohomology, K-theory [See also 13D15, 18P25.]

- Nielsen, H. Andreas (3174) Pedrini, Claudio 511

F20 Grothendieck cohomology and topology

- Basarab, Șerban A. (12996) Van Osdol, D. H. (5714)
 Bucur, I. 512 Toposes, algebraic geometry
 Laudai, Olav Arnfinn 10341 and logic 512

F25 Classical real and complex cohomology

- Di Stefano, F.; et al. (8480) Lascu, A. T.; et al. 8112
 Ilori, S. A.; et al. 8112 Zanoboni, S.; et al. (8480)
 Ingleson, A. W.; et al. 8112

F30 p-adic cohomology

- Mazur, Barry; et al. (*10350) Messing, William; et al. (*10350)

F35 Homotopy theory

- Barth, Wolf (13296) Algebraic geometry (Proc.
 Edwards, David A. (11491) Sympos. Pure Math.,
 Friedlander, Eric M. 3175 Vol. 29) (13296)
 Algebraic and geometrical
 methods in topology (Conf.
 Topological Methods in
 Algebraic Topology,
 State Univ. New York,
 Binghamton, N. Y., 1973) (11491)

F99 None of the above, but in this section

- Hoobler, Raymond T. (513)

14Gxx Arithmetic problems (For complex multiplication, see 10D25, 14K22.)

G05 Rationality questions

- Apéry, Roger 12694 Swinnerton-Dyer, H. P. F. 12859
 Dem'janenko, V. A. (349) Takeuchi, Mitsuhiro; et al.
 Inai, Hideo (8119) (*12871)
 Kambayashi, Tatsuji; et al. (*12871) Velu, Jacques 3176
 Kashivara, Masaki; et al. (14167) Algebraic geometry, Oslo
 1970 12859
 Kawai, Takahiro; et al. (14167) Journées Arithmétiques
 Mazur, Barry; et al. (*10350) (1973, Grenoble) 3176
 Messing, William; et al. (*10350) Journées Arithmétiques de
 Miyayoshi, Masayoshi; et al. (*12871) Bordeaux (Conf., Univ.
 514 Bordeaux, Bordeaux, 1974) (12694)
 Ogg, Andrew P. 514 Seminar on Modern Methods in
 Penny, David E.; et al. (12861, 12862) Number Theory (Inst.
 Pomerance, Carl; et al. (12861, 12862) Statist. Math., Tokyo,
 1971) 12858
 Shioda, T. 12858

G10 Zeta-functions and related questions

- Mazur, B. 8113
 Algebraic geometry (Proc.
 Sympos. Pure Math., Vol.
 29) 8113

G13 Weil-Zate conjectures

- Mazur, B. (8113)
 Algebraic geometry (Proc.
 Sympos. Pure Math.,
 Vol. 29) (8113)

G15 Finite ground fields

- Artin, M. (8116) Zarhin, Ju. G. 8114

G20 p-adic ground fields (local fields)

- Andrićuk, V. I. (8118) Konovalov, G. T. (8127)

G25 Global ground fields

- Fujiwara, Masahiko 12860 Setzer, Bennett (8121)
 Olson, Loren D. 8115 Seminar on Modern Methods in
 Penny, David E.; et al. 12861, 12862 Number Theory (Inst. Statist.
 Pomerance, Carl; et al. 12861, 12862 Math., Tokyo, 1971) 12860

G99 None of the above, but in this section

- Hoobler, Raymond T. 513 Journées Arithmétiques de
 Liardet, Pierre 515, 12863 Bordeaux (Conf., Univ.
 Bordeaux, Bordeaux, 1974) 12863

14Hxx Curves

H05 Algebraic function fields

- Endo, Shizuo; et al. (458) Washio, Tadashi (447)
Miyata, Takehiko; et al. (458)

H10 Families, moduli (algebraic)

- Geyer, W. D. 10342 Classification of algebraic
Lax, R. F. 12864 varieties and compact
complex manifolds 10342

H15 Families, moduli (analytic) [See also 32G15.]

- Accola, Robert D. M. (10611) Lebowitz, Aaron (8469)
Durfee, Alan H. (10678) Contributions to analysis
Lax, R. F. 12865 (a collection of papers
dedicated to Lipman Bers)
(10611)

H20 Singularities, local rings

- Cheniot, Denis (5603) Ueno, Kenji; et al. (5595)
Namikawa, Yukihiko; et al. (5595) Fonctions de plusieurs
variables complexes (Sém.
François Norguet,
1970-1973) 5603
Smith, David J. 12866 Singularités à Cargèse (1972)
3177

H30 Coverings, fundamental group

- Cheniot, D. (3168), 5603 Fonctions de plusieurs vari-
Subrao, Doré (12868) ables complexes (Sém.
François Norguet,
1970-1973) 5603

H35 Correspondences

- Cserner, Peter 516 Levin-Ménégaux, Renée 5604

H40 Jacobians [See also 32G20.]

- Du Val, Patrick 10343 Tjurin, A. N. 12867
Honda, Taira 3178 Ueno, Kenji; et al. (520)
Shiba, Masakazu (3426) Symposia Mathematica,
Oort, Frans; et al. (520) Vol. XI 3178

H45 Special curves

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J15 Singularities, moduli, classification: analytic theory
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- Hirzebruch, F.; et al. 517 Complex analysis, 1972, Vol.
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- Farkas, Hershel M. (8402, 10705) Discontinuous groups and
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- Gabriel, Peter (12944) Proceedings of the Interna-
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Rege, Mangesh B.	585	Representations of Algebras	
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A18 Orders, arithmetic in algebras

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A38 Rings with polynomial identity

- Bang, C. M.; et al. 595
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A44 Finite rings [See also 12Cxx.]

- Gilmer, Robert; et al. 5655
 Mott, Joe; et al. 5655
 Wiesenbauer, Johann 8163
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- Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 8163

A46 Chain conditions; finite dimensional algebras, Artin rings, Noetherian rings

- Bartolozzi, Federico 600
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- Lipman, William F. 5660
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- Ring theory (Proc. Oklahoma Conf., 1973) 10388
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A48 Structure, classification

- Ferrero Cotti, C.; et al. 12931
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- Tominaga, Hisao 3227
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A58 Deformation theory of rings and algebras [See also 13D10, 32Gxx.]

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- Proceedings of the International Conference on Representations of Algebras (Carleton Univ., Ottawa, Ont., 1974) 612, 5671, 12944
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A66 Ideal theory, prime ideals and their generalizations

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| Hudry, Alain | 5675 | Rings, modules and radicals | |
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| McCoy, N. H. | 613 | | 613 |
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A72 Automorphisms, derivations

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| Fisher, John R. | 10395 | Proceedings of the International Conference on Representations of Algebras (Carleton Univ., Ottawa, Ont., 1974) | 614 |
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A74 Galois theory

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| Baer, Reinhold | 615 | Symposia Mathematica, Vol. VIII | 615, 8180 |
| Liebert, Wolfgang | 8180 | | |
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| Ligh, Steve | 10397 | | |

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| Dover, R. E.; et al. | 10398 | Stone, H. E.; et al. | 10398 |
| Fernández Bermejo, Emiliano | 617 | Proceedings of the Annual Conference of Spanish Mathematicians, Tenth (La Laguna, 1969) | 617 |
| Karvellas, Paul H. | 3236 | | |
| Kiss, Elemér | 5680 | | |
| Lee, Hyunkoo | 618 | | |

A80 Topological rings and semirings [For ordered rings, see 06A70; see also 13Jxx.]

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| Aleksef, S. F. | 8184 | A collection of articles on the constructive theory of functions and the extremal problems of functional analysis | 10399 |
| Cathelineau, J.-L. | (13639) | Séminaire Pierre Lelong (Analyse), Année 1967-1968 | (13639) |
| Karvellas, P. H. | 5682 | | |
| Pospelov, A. S. | 10399 | | |
| Ursu, M. I. | 8185 | | |

17-XX NONASSOCIATIVE RINGS AND ALGEBRAS

-02 Advanced exposition (research surveys, etc.)

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| Boya, Luis J.; et al. | 619 | Varadarajan, V. S. | (*13113) |
| Pedraza, Juan; et al. | 619 | | |

17Axx General nonassociative algebras

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| Coughlin, Raymond; et al. | 10400 | Stitzinger, Ernest L. | 10401 |
| Rich, Michael; et al. | 10400 | Thedy, Armin; et al. | 10400 |

A05 Power-associative

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A10 Commutative power-associative

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| Gerstenhaber, Murray; et al. | 620 | Rybakova, T. L. | 3237 |
| Myung, Ryo Chul; et al. | 620 | Streb, Walter | 621 |

A15 Noncommutative Jordan algebras

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| McCrmon, Kevin | 10402 | Slin'ko, A. M. | 5683 |
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A30 Algebras satisfying other identities

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| Boers, A. H. | 622 | Piacentini Cattaneo, | |
| Hentzel, Irvin Roy; et al. | 5684 | Giulia Maria; et al. | 5684 |
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| Pcelincev, S. V. | 3238 | Smith, Harry F.; et al. | 8187 |

A99 None of the above, but in this section

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| Andrunakievič, V. A.; et al. | (12911) | Rossa, R. F. | (10381) |
| Gal'nov, A. T. | 12954 | Stewart, Ian | 8190 |
| Lex, Wilfried | 8188 | Sweet, Lowell | 12955 |
| Nasirov, S. N. | 623 | Windelberg, Dirk | 10406 |
| Odoni, R. W. K. | 3239 | Collection of articles commemorating Aleksandr Gennadijevič Kuroš | (12911) |
| Rich, Michael | 8189 | | |
| Rjabuhin, Ju. M.; et al. | (12911) | | |

17Bxx Lie algebras (For Lie groups, see 22Exx.)

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B05 Structure theory

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| Drenski, V. S. | 624 | Rafin'stein, B. Z. | 12956 |
| Kac, V. G. | 5685 | Towers, D. A. | 12957 |
| Kawamoto, Naoki | 625 | Unsin, Walther | 10409 |
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B10 Representations, algebraic theory (weights)

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| Barnes, D. W. | 3242 | Lemire, F. W. | 12959 |
| Kac, V. G. | 10410 | Meden, Françoise | 12960 |

B15 Representations, analytic theory

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| Lepovsky, J. | 12961 | Sternheimer, Daniel; et al. | 5686 |
| Mailard, Jean-Marie; et al. | 5686 | | |

B20 Simple, semisimple, reductive algebras (roots)

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| Barnes, D. W. | 626 | Luks, Eugene; et al. | 10411 |
| Bunchaft, F. | (14772) | Stewart, Ian | 629 |
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| Henrich, C. J. | 627 | Vinberg, E. B. | 3244 |
| van den Hombergh, Adolf | 3243, 12962 | Collection of articles dedicated to the memory of Hanna Neumann, I | 626 |
| Jacobs, John B. | 5688 | Proceedings of the International Conference on the Theory of Groups, Second (Canberra, 1973) | 5689 |
| Kostrikin, A. I. | 5689 | | |
| Lagasse-Decauvert, Monique | 628 | | |
| Leger, George; et al. | 10411 | | |

B25 Exceptional algebras

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| Asano, Hiroshi; et al. | 10412 | Yamaguti, Kiyoshi; et al. | 10412 |
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B30 Solvable, nilpotent algebras

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| Bratslavsky, F. | 5690 | Scheuneman, John | (8337) |
| Gabriel, Peter; et al. | *12965 | | |

B35 Universal enveloping algebras

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| Conse, Nicole | 8191, 10414 | Rentschler, Rudolf | 5691 |
| Lepovsky, J. | 12967 | Varfolomeev, V. V. | 5692 |
| Moscovici, Henri; et al. | 12968 | Verona, Andrei; et al. | 12968 |

B40 Automorphisms, derivations, other operators

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| Dizmier, J.; et al. | 630 | Johnson, R. Warren | 10417 |
| Duflo, Michel; et al. | 630 | Robbin, J. W. | 632 |
| Fariñas, Beatriz | 10415 | de Ruiter, J. | 631 |
| Goodaire, Edgar G. | 10416 | Vergne, M.; et al. | 630 |

B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx.]

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| van der Kallen, W. L. J. | (738) |
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B55 Homological methods in Lie algebra [For homology of Lie algebras, see 18B25.]

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| Conod, Sylvie; et al. | 3246 | de la Harpe, Pierre; et al. | 3246 |
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B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16A68, 17C40, 17C50.]

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| El'sting, G. O. | 633 | Hein, W. | 12969 |
| Faulkner, John R. | 3247 | | |

B65 Infinite dimensional Lie algebras [See also 22B65.]

Amayo, Ralph K.; et al. 10418 Stewart, Ian; et al. 10418

B99 None of the above, but in this section

Bahturin, Ju. A.; et al. 10419 Ol'šanskiĭ, A. Ju.; et al. 10419
Bokut', L. A. (106)
Drenski, V. S. 10420 Vaksman, L. L. (3930)

17Cxx Jordan algebras (commutative)

C10 Structure theory

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Meyberg, Kurt 12970 Ravatin, Jacques 3248

C20 Simple, semisimple algebras

Šnancar, V. 3249

C35 Formally real domains of positivity [See also 32Nxx.]

Tillier, André 3250

C99 None of the above, but in this section

Janssen, Gerhard (13710a,13710b)

17D05 Alternative rings

Hongo, Kishi; et al. 5695 Pickert, Günter (*6577)
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Krempa, J. 10421 Ževjakov, K. A. 12972
Loos, Ottmar 8192 Collection of articles commemorating Aleksandr Gennadievich Kuroš 12972
Oda, Mituru; et al. 5695
Petersson, Holger P. 635

17E05 Other nonassociative rings and algebras

Abian, Alexander 10422 Snell, Roy C.; et al. 8193
Buoncrisiani, A. M. (4871) Stitzinger, Ernest L. 10424
Ferraz, J. C. 10423 Sweet, Lowell 637
Goodaire, Edgar G.; et al. 8193 Wörz-Busekros, Angelika 8194
Rich, Michael 636
Sagle, A. A.; et al. (11361)
Schumi, J. R.; et al. (11361)

18-XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

-01 Elementary exposition (collegiate level)

Arbib, Michael A.; et al. *638 Manes, Ernest G.; et al. *638
Hilton, Peter 8195

-02 Advanced exposition (research surveys, etc.)

Calenko, M. Š.; et al. *10425 Lafon, Jean-Pierre (*465)
Faith, Carl (*3206) Šul'geifer, E. G.; et al. *10425

-06 Collections of papers; proceedings of conferences

(Lavvere, F. W.) (*10016) Conférences du Colloque sur
(Manes, Ernest Gene) (*2816) l'Algèbre des Catégories
(Maurer, C.) (*10016) (Amiens, 1973), III (*12452)
(Wraith, G. C.) (*10016) International Symposium on
Algebra of categories (*12452) Category Theory Applied to
Algèbre des catégories (*12452) Computation and Control,
Category theory applied to First (San Francisco,
computation and control Calif., 1974) (*2816)
(Proc. First Internat. Model theory and topol (*10016)
Sympos., San Francisco, Proceedings of the Interna-
Calif., 1974) (*2816) tional Symposium on
Colloque sur l'Algèbre des Category Theory Applied to
Catégories (Amiens, 1973) Computation and Control,
(*12452) First (San Francisco,
Computation and control (*2816) Calif., 1974) (*2816)
Topol (*10016)

18Axx General theory of categories and functors

A05 Definitions, generalizations

Barthélemy, Jean-Pierre 10426 Galuzzi, Massimo; et al. 10427
Betti, Renato; et al. 10427 Esquisses mathématiques
Cordier, Jean-Marc 5697 5697,10426

A15 Foundations, relations to logic and deductive systems [See also 02-XX.]

Bourn, Dominique 639a Renk, Anna Michaelides 5698
Lavvere, F. William 12973 Schladuk, Dana J. 3252
Marchini, Carlo 3251 Esquisses mathématiques,
Mijoule, Richard (7861) No. 21 (7861)
Myers, Dale (5289) Toposes, algebraic geometry
and logic 12973

A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bi)categories

Hasse, Maria 8196 Schwab, E. 5702
Hong, Sung Sa 5699 Strecker, G. E. (1709)
Ohkuma, Tadashi 5700 TOPO 72-general topology
Pavel, Monique 5701 and its applications (1709)

A25 Functor categories, comma categories

Šul'geifer, E. G. 10428 Collection of articles
commemorating Aleksandr
Gennadievich Kuroš 10428

A30 Limits and colimits (products, sums, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Adámek, J.; et al. 12974 Penon, Jacques 641
Bertin, E. M. J. 10429 Reiterman, J.; et al. 12974
Bourn, Dominique 639b Rosický, Jiří 12975
Delale, Jean-Pierre 8197 Servi, Mario (151)
Gouzou, Marie-Françoise 10430 Shores, Thomas S. 12976
Grünig, Roland 640 Ulmer, Friedrich 10431
Monteverdi, Daniela (135) Esquisses mathématiques,
No. 17 641

A35 Complete categories, completions

Leblond, Marie-Claude 12977 Weidenfeld, Michèle; et al. 8198
Weidenfeld, Gérard; et al. 8198 Esquisses mathématiques,
No. 15 12977

A40 Adjoint functors (representable functors, universal constructions, reflexive subcategories, etc.), constructions of adjoints (Kan extensions, etc.)

Botnaru, D. V. 5703 Rattray, B. A. 12979
Diers, Yves 10432 Recio Mufiz, Tomás J. 3254
Fontana, Marco 5704 Proceedings of the Conference
Ghione, F. 642 of Portuguese and
Menu, Jan; et al. 3253 Spanish Mathematicians,
Pelletier, Joan Wick 12978 First (Lisbon, 1972) 3254
Pultr, Aleš; et al. 3253

A99 None of the above, but in this section

Gardner, B. J.; et al. 8199 Stewart, Patrick N.; et al. 8199
Mumura, Yasutoshi 3255

18Bxx Special categories

B05 Category of sets, characterizations

Bunge, Marta C. (2908) Tierney, Myles (10088)
Diaconescu, Radu (10093) Toposes, algebraic geometry
Engenes, Hans 8200 and logic (10088)
Osirus, Gerhard 643 Esquisses mathématiques,
Penk, Anna Michaelides (5698) No. 21 8208
Vauglade, Elisabeth 8208

B10 Category of relations, additive relations, semigroups [See also 20Mxx.]

Hoehnke, H.-J. 12980

B15 Embedding theorems, universal categories [See also 18E20.]

Durand, Robert 10433 General topology and its
Reiterman, J.; et al. 644 relations to modern analysis
Šedivá-Trnková, Věra; et al. 644 and algebra, III 644

B20 Categories of machines, automata, operative categories [See also 02F10, 68A25, 94A30, 94A35.]

Adámek, J.; et al. 8203 Šedivá-Trnková, Věra; et al. 8203
Arbib, Michael A.; et al. (*638)
Ehrig, Hartmut 8201
Goguen, J. A., Jr. (9558)
Grassmann, Hubert; et al. 12981
Koubek, V.; et al. 8203
Manes, Ernest G.; et al. (*638)
Meseguer, José; et al. (15140)
Prather, Ronald E. 10434
Reiterman, J.; et al. 8203
Siebert, Gert; et al. 12981
Sols, Ignacio; et al. (15140)
Šedivá-Trnková, Věra 8202
Annual IEEE Symposium on
Switching and Automata
Theory, Thirteenth (Univ.
Maryland, 1972) (9558)
Category theory applied to
computation and control
(Proc. First Internat.
Sympos., San Francisco,
Calif., 1974) (15140)
Überblicke Mathematik,
Band 7 8201

B99 None of the above, but in this section

Georgescu, George (10190)

18Cxx Categories and algebraic theories**C10 Theories (e.g. algebraic theories), structure, and semantics**

Blanc, Georges	3256	Categories and commutative algebra (C.I.M.E., 1971)	8205
Kennison, John F.	8204	Esquisses mathématiques, No. 14	3256
Lair, C.	8205	Model theory and topoi	12982-12984
Lavvere, F. William	12982	TOPO 72—general topology and its applications	5705
Penon, Jacques	10435		
Reynolds, George D.	5705		
Volger, Hugo	12983, 12984		

C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx.]

Coppey, Laurent	10436	Menu, Jan; et al.	8206
Deleanu, Aristide; et al.	12985	Palmquist, Paul H.	12986
Frei, Armin; et al.	5706, 12985	Pultr, Aleš; et al.	8206
Hacque, Michel	3257	Semadeni, Zbigniew	(43916)
Hilton, Peter; et al.	12985	Wolff, Harvey	5707
MacDonald, John L.; et al.	5706	Esquisses mathématiques, No. 14	10436
Manes, E. G.	(4143)		

C99 None of the above, but in this section

Day, Alan	3258
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18Dxx Categories with structure

Gray, John W.	*8207
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D05 Double categories, 2-categories, bicategories, hypercategories

Botnaru, D. V.	3259	Kelly, G. M.	647, 648
Ciucurel, Olimpiu	645	Penon, Jacques	649
Gisin, V. B.	5708	Szabo, M. E.	(10046)
Gouzou, Marie-Françoise; et al.	646	Category Seminar (Proc. Sem., Sydney, 1972/1973)	
Grünig, Roland; et al.	646		647, 648

D10 Monoidal categories (= multiplicative categories)

Calvo, Bernard	5709	Lindner, Harald	12988
Kettner, James E.	12987		

D15 Closed categories (closed monoidal and cartesian closed categories, etc.)

Day, Brian	650	Category Seminar (Proc. Sem., Sydney, 1972/1973)	650
Kelly, G. M.; et al.	10437	Coherence in categories	10437
MacLane, Saunders; et al.	10437		
Szabo, M. E.	12989		

D20 Enriched categories (over closed or monoidal categories)

Borceux, Francis; et al.	5710	Kelly, G. M.; et al.	5710
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D25 Strong functors, strong adjunctions

Michor, Peter	10438
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D30 Fibered categories

Hoff, Georges	12990
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D35 Structured objects in a category (group objects, etc.)

Marchini, Carlo	3260
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18Exx Abelian categories**E10 Exact categories, abelian categories**

Barr, Michael	10439	Licou, Dorian	3261
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E15 Grothendieck categories

Harada, Manabu	3262a-d	Simson, Daniel	652
Popescu, Elena-Liliana	8209		

E35 Localization of categories

Brook, Tim	651	Ratray, B. A.; et al.	8210
Lambek, J.; et al.	8210		

E40 Torsion theories, radicals

Gómez Pardo, J. L.	*5711	Kurata, Yoshiki; et al.	(8169)
Katayama, Hisao; et al.	(8169)	Kutami, Mamoru; et al.	(8169)

E99 None of the above, but in this section

Vincze, J.; et al.	12991	Vincze, Maria; et al.	12991
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18Fxx Categories and geometry

Husemoller, Dale	(46805)
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F10 Grothendieck topologies [See also 14F20.]

Day, Brian	10440	Category Seminar (Proc. Sem., Sydney, 1972/1973)	10440
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F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 55B30.]

Vasilescu, Florian-Horia	12992
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F25 Algebraic K-theory [See also 13D15, 14F15, 16A54.]

Bass, Hyman	8211	Villamayor, Orlando E.; et al.	12994
Bloch, Spencer	(8108)	Waldhausen, Friedhelm	(6803)
Graham, Jimmie	(442)	Wall, C. T. C.	3263
Harris, B.; et al.	10441	Algebraic K-theory, II: "Classical" algebraic K-theory and connections with arithmetic	(442, 4278)
Matcher, Allen E.	(4278)		(6803, 6828, 10339), 10441
Hsiang, Wu Chung	(6828)	Algebraic K-theory, III: Hermitian K-theory and geometric applications	8211
van der Kallen, Wilberd; et al.	12993	Manifolds—Tokyo 1973	3263
Maassen, Hendrik; et al.	12993		
Roberts, L.	(10339)		
Stasheff, J.; et al.	10441		
Stein, Michael R.	(8273)		
Stienstra, Jan; et al.	12993		
Strooker, Jan R.; et al.	12994		

18Gxx Homological algebra**G05 Projectives and injectives [See also 13C10, 16A50, 16A52.]**

Brown, Kenneth S.	12995	Georgescu, George	5712
Fuchs, L.	8212	Hart, N.	(753)

G10 Resolutions; derived functors [See also 18E25.]

Simson, Daniel; et al.	(14030)	Tyc, Andrzej; et al.	(14030)
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G15 Ext and Tor, generalizations, Küneth formula [See also 55J25.]

Basarab, Șerban A.	12996	Stasheff, James; et al.	(1823)
Griffith, Phillip	653	Symposia Mathematica, Vol. XIII	653
Husemoller, Dale; et al.	(1823)		
Moore, John C.; et al.	(1823)		

G20 Homological dimension [See also 13Dxx, 16A62.]

Mitchell, Barry	8213
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G25 Relative homological algebra, projective classes

Basarab, Șerban A.	(12996)	Benkő, Iosif	12997
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G35 Chain complexes [See also 18E30, 55J15.]

Arnold, James E., Jr.	8214
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G99 None of the above, but in this section

Lee, Ming Jung	(9047)	Van Osdol, D. H.	5714
Rine, David C.	5713		

18Hxx Cohomology of specified algebraic systems**H10 Cohomology and homology of groups [See also 20Jxx.]**

Carlson, J. F.	3264	Ojanguren, M.; et al.	(5572)
Dwyer, William G.	10442	Stamback, Urs; et al.	5715
Hilton, Peter; et al.	5715	Thomas, C. B.	3265
Hofmann, Karl H.; et al.	(48330)	Collection of articles dedicated to the memory of Hanna Neumann, VII	5715
Knus, M.-A.; et al.	(5572)		
Mostert, Paul S.; et al.	(48330)		
(Nunemela, Eric C.)	(48330)		

H15 Cohomology and homology of algebras and rings [See also 16A62.]

Graves, William H.	12998	Ivanovskiy, L. N.	655
Hsu, M. C.	654	Sweedler, Moss E.	(587)

H20 Cohomology and homology of commutative rings [See also 13Dxx.]

André, Michel	3266	Van Osdol, D. H.	8215
Macdonald, I. G.	12999		

H25 Cohomology of Lie algebras [See also 17B55.]

McConnell, J. C.	(12966)	Vey, Jacques	3267
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20-XX GROUP THEORY AND GENERALIZATIONS

(For ordered groups, see 06A55.)

- | | | | |
|------------------------|-----|----------------------------|-----|
| (Bachmuth, S.) | 656 | (Wallis, W. D.) | 656 |
| (Cossey, John) | 656 | Problem section | 656 |
| (Gorenstein, D.) | 656 | Problems in group theory | 656 |
| (Meakin, S. A.) | 656 | (1973) | 656 |
| (Ordman, Edward T.) | 656 | Proceedings of the Inter- | |
| (Rosenberger, Gerhard) | 656 | national Conference on the | |
| (Serre, J.-P.) | 656 | Theory of Groups, Second | |
| (Shult, E. E.) | 656 | (Canberra, 1973) | 656 |

01 Elementary exposition (collegiate level)

- | | | | |
|--------------------|------|--------------|-------|
| Cavior, Stephan R. | 8216 | Wicks, M. J. | 13000 |
| Gongora, E. | 3268 | | |

02 Advanced exposition (research surveys, etc.)

- | | | | |
|------------------------|--------|---------------------------|--------|
| (Kargapolov, M. I.) | *10443 | Kourov notebook: unsolved | |
| (Merzljakov, Ju. I.) | *10443 | problems in the theory of | |
| (Remeslennikov, V. N.) | *10443 | groups | *10443 |
| (Suprunenko, D. A.) | *13001 | Unsolved problems in the | |
| Group theory | *10443 | theory of groups | *10443 |

03 Historical

- | | | | |
|------------------|--------|---------------------------------|--|
| Boerner, Hermann | (7777) | Lecture notes on the repre- | |
| | | sentation theory of | |
| | | finite groups (Sympos., | |
| | | Math. Res. Inst., Univ. | |
| | | Istanbul, Istanbul, 1973)(7777) | |

04 Explicit machine computation and programs (not the theory of computation or programming)

- | | | | |
|------------------------------|---------|----------------------------|-------|
| Cannon, John J. | 3269 | Proceedings of the Inter- | |
| Havas, George | 13002 | national Conference on the | |
| Hoffman, Frederick | 5716 | Theory of Groups, Second | |
| (Macdonald, I. D.) | (13028) | (Canberra, 1973) | 13002 |
| Walker, R. B. | 657 | Proceedings of the South- | |
| Collection of articles dedi- | | eastern Conference on | |
| cated to the memory of | | Combinatorics, Graph | |
| Hanna Neumann, V. | (13028) | Theory, and Computing, | |
| Computers in algebra and | | Third (1972) | 5716 |
| number theory | 3269 | | |

06 Collections of papers; proceedings of conferences

- | | | | |
|--------------------|-----|----------------------------|-----|
| (Gatterdam, R. W.) | 658 | Conference on Group Theory | |
| (Weston, K. W.) | 658 | (Univ. Wisconsin-Parkside, | |
| | | Kenosha, Wis., 1972) | 658 |
| | | Group theory | 658 |

20Axx Foundations

A05 Axiomatics and elementary properties

- | | | | |
|----------------|------|------------------------------|------|
| Schröter, Karl | 5717 | Collection of articles dedi- | |
| Solecki, A. | 659 | cated to Helmut Hasse on | |
| | | his seventy-fifth birth- | |
| | | day, II | 5717 |

A10 Metamathematical considerations (For word problems, see 20F10.)

- | | | | |
|------------------|--------------|---------------------------|---------|
| Doraczynska, E. | (5281) | Sobociński, Bolesław | (10071) |
| Eršov, Ju. L. | (5280) | Proceedings of the Tarski | |
| Gitting, Rainer | (10070) | Symposium (Proc. Sympos. | |
| Sabbagh, Gabriel | 3270, (7849) | Pure Math., Vol. XXV) | (5280) |

A99 None of the above, but in this section

- | | | | |
|-----------------|---------|------------------|------|
| Martynov, L. M. | (13111) | Werner, Heinrich | 3271 |
|-----------------|---------|------------------|------|

20Bxx Finite permutation groups

- | | | | |
|-------------------|---------|-----------------------|---------|
| (Birjukov, B. V.) | (*2830) | (Rosenfel'd, B. A.) | (*2830) |
| Cameron, P. J. | 5718 | Weyl, Hermann | (*2830) |
| (Danilov, Ju. A.) | (*2830) | Combinatorics, Part 3 | 5718 |
| (Jaglom, I. M.) | (*2830) | | |

B05 General theory

- | | | | |
|---------------------------|------------|-------------------------------|---------|
| Atkinson, M. D. | 3272 | Smith, M. S. | 5719 |
| Camion, P. | (13064) | Collection of articles dedi- | |
| Feit, Walter; et al. | 8217 | cated to the memory of the | |
| Frucht, Roberto; et al. | (5381) | Balkan mathematicians | |
| Halberstadt, Emmanuel | 10444 | Constantin Carathéodory, | |
| Harary, Frank; et al. | (5381) | Josip Plemelj, Dimitrie | |
| Krasner, Marc | 3273 | Pompeiu and Gheorghe Tîrpeica | |
| Levin, Mordechai | (12595) | in connection with the | |
| Lyndon, Roger; et al. | 8217 | first centenary of their | |
| Pöschel, R. | 3274 | birth | 3273 |
| Rowlinson, Peter | 3275, 3276 | Permutations (Actes Colloq., | |
| Scott, Leonard L.; et al. | 8217 | Paris, 1972) | (13064) |

B10 Characterization theorems

- | | | | |
|---------------------|-------|-------------------------------|-------|
| Aschbacher, Michael | 10445 | Pretzel, Oliver; et al. | 5721 |
| Chillag, David | 13003 | Schleiermacher, Adolf; et al. | |
| Hayashi, Makoto | 8218 | | 5721 |
| Lipczyńska, Ewa | 5720 | Smith, M. S. | 3277 |
| Mikul'skiĭ, V. E. | 13004 | Tsuzuka, Tosiro | 13005 |

B15 Uniprimitive groups

- | | | | |
|-----------------|------|------------------|------|
| Knapp, Wolfgang | 8219 | Rowlinson, Peter | 8220 |
| Miyamoto, Izumi | 660 | | |

B20 Multiply transitive groups

- | | | | |
|------------------|--------|-----------------------------|-------|
| Atsumi, Tsuyoshi | 13006 | Neumann, Peter M. | 13007 |
| Baĭramov, R. A. | 8221 | Rosati, Luigi Antonio | 3278 |
| Bannai, Eiichi | 5722 | Schmidt, Roland | 13008 |
| Bercov, R. D. | 8222 | Proceedings of the Interna- | |
| Cameron, P. J. | 661 | tional Conference on the | |
| Ito, Tatsuro | 662 | Theory of Groups, Second | |
| Lehrer, G. I. | (5332) | (Canberra, 1973) | 13007 |

B25 Automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 20G40, 20H30, 50-XX.]

- | | | | |
|-----------------------------|----------|----------------------------|---------|
| Bird, Elliott; et al. | 3279 | Mazurov, V. D.; et al. | 5723 |
| Buukenhout, F. | 13009 | McKay, John | 663 |
| Greene, Curtis; et al. | 3279 | Finite groups '72 | 663 |
| Higman, Graham | (*13049) | Infinite and finite sets | |
| Imrich, W. | (12594) | (Colloq., Keszthely, 1973; | |
| Kabonjuk, M. I. | 5724 | dedicated to P. Erdős on | |
| Kabonjuk, M. I.; et al. | 5723 | his 60th birthday) | (12594) |
| Kleitman, Daniel J.; et al. | | | |
| | 3279 | | |

B99 None of the above, but in this section

- | | | | |
|--------------|------|------------------------------|------|
| Kreveras, G. | 3280 | Permutations (Actes Colloq., | |
| | | Paris, 1972) | 3280 |

20Cxx Representation theory of finite groups

- | | | | |
|-----------------------------|-------------|------------------------------|------|
| Çelik, Özdem | 10446 | Representation theory of | |
| Formanek, Edward | 794 | finite groups | *664 |
| Finite groups | *664 | Symposium on the Representa- | |
| Lecture notes on the repre- | | tion Theory of Finite | |
| sentsation theory of finite | | Groups (Math. Res. Inst., | |
| groups (Sympos., Math. Res. | | Univ. Istanbul, Istanbul, | *664 |
| Inst., Univ. Istanbul, | | 1973) | |
| Istanbul, 1973) | *664, 10446 | | |

C05 Group rings and their modules [See also 16A26.]

- | | | | |
|-----------------------------|-------------|-------------------------------|-------|
| Baumslag, Gilbert | 3281 | Roggenkamp, K. W.; et al. | 10447 |
| Carlson, Jon F. | 665, 13010 | Sehgal, Sudarshan K. | 671 |
| Cassou-Nogués, Philippe | 666 | Sehgal, Sudarshan K.; | |
| Possum T. V. | (597) | et al. | 5725 |
| Gabriel, Pierre | (3229) | Spiegel, Eugene | 672 |
| Gruenberg, K. W.; et al. | 10447 | Ullom, S.; et al. | 3285 |
| Hamernik, Wolfgang | 667, *668 | Yamada, Toshihiko | (441) |
| Humphreys, J. E. | (732) | Collection of articles dedi- | |
| Ruppert, Bertram | 8223 | cated to Wilhelm Magnus | 3281 |
| Karłow, John | 3282 | Journées Arithmétiques (1973, | |
| Khatiri, D. C. | 669 | Grenoble) | 666 |
| Kosniowski, Czes | 670 | Proceedings of the Confer- | |
| Krämer, Helmut | 3283 | ence on Orders, Group Rings | |
| Levin, Jacques; et al. | 13011 | and Related Topics (Ohio | |
| Levin, Tekla; et al. | 13011 | State Univ., Columbus, | |
| Morris, Russell | (5637) | Ohio, 1972) | (441) |
| Motose, Kaoru; et al. | 8224, 13012 | Proceedings of the Inter- | |
| Nguen Kuf Zi | (8081) | national Conference on | |
| Ninomiya, Yasushi; et al. | | Representations of Alge- | |
| | 8224, 13012 | bras (Carleton Univ., | |
| Pahlings, H. | 3284 | Ottawa, Ont., 1974) | 665 |
| Passi, Inder Bir S.; et al. | 5725 | Symposia Mathematica, | |
| Reiner, I.; et al. | 3285 | Vol. XIII | 3285 |

C10 Integral representations

- | | | | |
|------------------|---------|---------------------------|------|
| Butler, M. C. R. | 8225 | Proceedings of the Inter- | |
| Feit, Walter | 10448 | national Conference on | |
| Wall, C. T. C. | (12921) | Representations of Alge- | |
| | | bras (Carleton Univ., | |
| | | Ottawa, Ont., 1974) | 8225 |

C15 Ordinary representations and characters

- | | | | |
|------------------------|-------------|----------------------------|------------|
| Blau, Harvey I. | 13013 | Hunt, David C. | 5726, 5727 |
| Chang, Bomshik; et al. | 673 | Karpilovsky, G. | 8227 |
| Drobotenko, V. S. | 3286 | Lehrer, G. I. | 675 |
| Fein, Burton | 674, 10449 | Lorens, Falco | 10451 |
| Fields, K. L. | 3287 | McKay, John | 8228 |
| Finizio, Norman J. | 5728 | Narkunskaja, G. S.; et al. | 5730 |
| Gallagher, Patrick X. | 10450 | Ree, Rimhak; et al. | 673 |
| Gov, R. | 8226, 13014 | Ritter, Jürgen | 676 |

- Roth, Richard L. 5729
 Watanabe, Atumi 3288
 Yamada, Toshihiko 677
 Zeleninskii, A. V.; et al. 5730

C20 *Modular representations and characters*

- Gow, Roderick 13015
 Martineau, R. Patrick 5731
 Michler, Gerhard O. 8229
 Nozawa, Sōhei 10452
 Olsson, Jörn Börling 13016
 Puttaswamai, B. M. 5732
 Torres Iglesias, Miguel 8230

C25 *Projective representations and multipliers*

- Backhouse, N. B. 5733
 Backhouse, N. B.; et al. 5734
 Bradley, C. J.; et al. 5734

C30 *Representations of symmetric groups and other special groups*

- Boorman, Evelyn Hutterer 678
 Carter, R. W.; et al. 5736
 Đoković, Dragomir Ž.; et al. 5737
 Knutson, Donald 4679
 Lustig, G.; et al. 5736
 Malzan, J.; et al. 5737
 Merris, Russell; et al. (5638)
 Pahlings, H. 8231

C35 *Applications to physics*

- Kerber, Adalbert 13017

C99 *None of the above, but in this section*

- Kur'min, Ju. V. 5738
 Watkins, Mark E. (253)

20Dxx *Abstract finite groups*D05 *Simple groups* [See also 20G40.]

- Aschbacher, Michael 681,13018
 Beisiegel, Bert 10455
 Busarkin, V. M.; et al. 682,683
 Clarke, R. J. 13019
 Conway, J. H. 8233
 Durakov, B. K.; et al. 682,683
 Gorenstein, Daniel; et al. 43290
 Hall, Marshall, Jr. 684
 Harada, Koichiro; et al. 43290
 Hunt, David C. (5726,5727)
 Kvak, Chung Mo 10456
 Landrock, Peter 13020
 Lyons, Richard 5739
 Mason, Geoffrey 10457
 Masurov, V. D. 5740,8234
 Masurov, V. D.; et al. 5741
 McKay, John 685
 Misuno, Kenzo 13021
 Podufalov, N. D. 5742

D10 *Solvable groups*

- Agrawal, Ram K. 688
 Beidleman, James; et al. 5747
 Blesensohl, Dieter 8238
 Brevster, Ben; et al. 5747
 Bryce, R. A.; et al. 3292
 Buchthal, David C. 5748
 Camina, Alan R.; et al. 13025
 Cossey, John 10459
 Cossey, John; et al. 3292
 D'Arcy, Patrick 3293
 Friesen, Donald K. 5749
 Goncalves, A.; et al. 8239
 Haggarty, R. J. 8240
 Ho, C. Y.; et al. 8239
 Jurcenko, V. I. 5750
 Kappe, Luise-Charlotte; et al. 3294
 Kappe, Wolfgang P.; et al. 3294

D15 *Nilpotent groups, p-groups*

- Gallian, Joseph A. 3297
 Glauberman, George 10462
 Havas, George; et al. 3298
 Hée, Jean-Ives 8242

- Macdonald, I. D. 13028
 Patterson, Anne R. 5755
 MacWilliams 10463
 Subbotin, I. Ja. 690
 Vaughan-Lee, M. R. 3298
 Wall, G. E.; et al. 3298
 Wamsley, J. W.; et al. 5754

D20 *Sylow subgroups, π -groups*

- Azleki, S. P.; et al. 691
 Cybulenko, V. V. 10464
 Dade, Everett C. 8244
 Finkel, David 692
 Giri, R. D. 693
 Gomi, Kensaku 10465
 Goseki, Zensiro 8245
 Harris, Morton E. 694
 Herzog, Marcel 8246
 Ish-Shalom, Ariel 13029
 Johnsen, Karsten 8247

D25 *Special subgroups (Frattini, Fitting, etc.)*

- Baryševac, P. P. 5757
 Gallian, Joseph A. 696
 Hill, W. Mack 5758
 Maier, Rudolf; et al. 697
 Scarselli, Alessandro 5759

D30 *Series and lattices of subgroups*

- Wiegold, James 13031

D35 *Subnormal subgroups*

- Agrawal, Ram K. 698
 Johnson, N. L. (8949a,8949b)

D40 *Products of subgroups*

- Monahov, V. S. 699,3300

D45 *Automorphisms*

- Dade, Everett C. 700
 Jonah, D.; et al. 3301
 Konvisser, M.; et al. 3301

D99 *None of the above, but in this section*

- Benard, Mark; et al. 13034
 Brenner, J. L.; et al. 8250
 Busarkin, V. M.; et al. 13035
 Durakov, B. K.; et al. 13035
 Crawford, R. R.; et al. 5760
 Finkelstein, H. S. 13036
 Finkelstein, Harold; et al. 13034
 Kovalski, Eugeniusz 5761

20Exx *Infinite groups*

- (Fridman, A. A.) (*10480)
 (Greenlinger, Martin) (*10480)
 (Hmelevskii, Ju. I.) (*10480)
 Karrass, Abraham; et al. (*10480)

E05 *Free nonabelian groups*

- Dyer, Joan L.; et al. 5762
 Edmunds, Charles C. 5763
 Grinbergs, A. 13037
 Gupta, C. K.; et al. 5764
 Gupta, N. D.; et al. 5764
 Scott, G. Peter; et al. 5762
 Wehrfritz, B. A. F. 10469

E10 *Varieties of groups*

- Atkinson, M. D. 13038
 Bachmuth, S. 8253
 Edmunds, C. C.; et al. 10470
 Ersov, Ju. L. (5280)
 Genov, Georgi K. 5765
 Giri, R. D. 702
 Gringlas, L. Ja. 10471
 Gupta, N. D.; et al. 10470
 Harris, L. F. 5766
 Kleiman, Ju. G. 703
 McCool, J. (5783)
 Newman, M. F.; et al. 704
 Ormerod, Elizabeth A. 3302
 Phillips, Richard E. 8254
 Weston, K. W.; et al. 704
 Woepel, James J. 705

- Certain questions of group theory (Proc. Algebra Sem., No. 2, Riga, 1969/1970) 13037
 Proceedings of the International Conference on the Theory of Groups, Second (Canberra, 1973) 5764

- Yuan, Tah Zen; et al. 704
 Certain questions of group theory (Proc. Algebra Sem., No. 2, Riga, 1969/1970) 10471
 Conference on Group Theory (Univ. Wisconsin-Parkside, Kenosha, Wis., 1972) 10470
 Proceedings of the International Conference on the Theory of Groups, Second (Canberra, 1973) 3302
 Proceedings of the Tarski Symposium (Proc. Sympos. Pure Math., Vol. XXV) (5280)

E15 *Chains of subgroups (solvable groups, nilpotent groups, etc.)*

- Bachmuth, S.; et al. 706
 Botto Mura, Roberta; et al. 8255
 Bowers, J. F. 3303
 Kargapolov, M. I. 707
 Konjuh, V. S. 10472
 Mišenko, B. I. 3304
 Murač, M. M. 3305
 Newell, M. L. 13040
 Nochizuki, H. Y.; et al. 706
 Passi, Inder Bir S. 708
 Pickel, P. F. 709
 Pierce, Keith R. 13041
 Pionka, Ernest 3306
 Rabinović, E. B. 710
 Robinson, Derek J. S. 10473
 Roitberg, Joseph (1813)
 Segal, D. 10474, 10475
 Silcock, Howard L. 711, 10476
 Wilson, John S. 5767, 5768
 Conference on Group Theory (Univ. Wisconsin-Parkside, Kenosha, Wis., 1972) 10473
 Groups with subgroups having prescribed properties 3304, 3305
 Proceedings of the International Conference on the Theory of Groups, Second (Canberra, 1973) 707, 5767

E20 *Special subgroups other than commutator types*

- Černikov, S. M. 3307
 Passi, Inder Bir S.; et al. 8256
 Šunkov, V. F. 10477
 Groups with subgroups having prescribed properties 3307

E25 *Local properties, residual properties*

- Andreev, K. K. 712
 Asar, A. O. 3308
 Bowers, J. F. 13042
 Evans, Benny 8257
 Gupta, N. D.; et al. (5781)
 Hartley, B. 5769
 Hurley, T. C. 713
 Kegel, Otto H. 714
 Kus'min, Ju. V. 5770
 Newman, M. F.; et al. (5781)
 Tretkoff, Marvin 8258
 Wehrfritz, B. A. F. 10478
 Zacher, Giovanni 3309
 Zambelli, Vittoria 715
 Proceedings of the International Conference on the Theory of Groups, Second (Canberra, 1973) 714, 5769

E30 *Free products, generalized properties*

- Comerford, Leo P., Jr. 10479
 Fischer, J. 13043
 Mathieu, Yves; et al. (5771)
 Tan, Keng Teh 5772
 Vincent, Bernadette; et al. (5771)
 Waldhausen, Friedhelm (6803)
 Wicks, M. J. 13044
 Algebraic K-theory, II: "Classical" algebraic K-theory and connections with arithmetic (6803)
 Proceedings of the International Conference on the Theory of Groups, Second (Canberra, 1973) 13044

E35 *Representation in associative rings, Lie rings, combinatorial structures, etc.*

- Horowitz, Robert D. 5773

E99 *None of the above, but in this section*

- Brenner, J. L.; et al. 8259
 Černikov, M. S. 5774
 Houghton, C. H.; et al. 5775
 Segal, D.; et al. 5775
 Younis, Ali Russain 716

20Fxx *General groups, finite or infinite*

- (Fridman, A. A.) 10480
 (Greendlinger, Martin) 10480
 (Hmelevskii, Ju. I.) 10480
 Karras, Abraham; et al. 10480
 Magnus, Wilhelm; et al. 10480
 (Moldavanskii, D. I.) 10480
 Solitar, Donald; et al. 10480

F05 *Generators and relations*

- Baumslag, Gilbert 717
 Bogović, Ivan B.; et al. 13045
 Bozović, Nataša B.; et al. 13045
 Burns, R. G. 8260
 Campbell, C. M.; et al. 10481, 13046
 Cannon, John J. 13047
 Čebotar', A. A. 13048
 Funke, Klaus 8261
 Gowdy, Spenser O. 8262
 Higman, Graham 13049
 James, L. O.; et al. (9044)
 Luginbuhl, E.; et al. (9044)
 Ol'sanskii, A. Ju. 3310
 Picard, Sophie 3311, 13050
 Robertson, E. F.; et al. 10481, 13046
 Sacerdote, George S.; et al. 718
 Sag, T. W.; et al. 719
 Schenkman, Eugene 5776
 Schmidt, Brian K. (14082)
 Schupp, Paul E.; et al. 718
 Sonn, Jack 3312
 Soublin, J. P. 8263
 Thomas, R. S. D.; et al. (9044)
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- Gel'fand, I. M. *5845 Summer School on Group Representations of the Bolyai
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- van Dijk, G. 814 Mautner, Friederich Ignaz (5560)

E65 Infinite dimensional Lie groups and their Lie algebras [See also 17B65, 58H05.]

- Abib, Odinete Renée (4329) de la Harpe, Pierre; et al.
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- Huszár, Miklós 815 Testa, F. J. (8140)
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A06 One-variable calculus

- Creighton, J. H. C. 13147 van de Lune, J. 13148
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A12 Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]

- de Haan, Laurens (1916) Redheffer, Ray 823

A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) [For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.]

- Gibson, Richard G. (4141) Wilczyński, Władysław 897
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A18 Iteration [See also 39A20.]

- Bailey, D. F. 5860 Hillam, Bruce P. 3364

A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50.]

- Mauldin, R. Daniel (4153), 8345

A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15.]

- Bhattacharyya, P. 3365 Kryl, Rudolf 3367
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A33 Fractional derivatives and integrals

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A51 Convexity, generalizations

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Greenberg, Harvey J.; et al. Smajdor, A. (8664)
Karlin, Samuel; et al. 13156 Vasić, Petar M.; et al. (13166)
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A63 Integration: length, area, volume

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A72 Superposition of functions

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A84 Inequalities involving derivatives and differential and integral operators

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A97 Nonarchimedean analysis

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A98 Nonstandard analysis [See also 08H25.]

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01 Elementary exposition (collegiate level)

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A15 Abstract differentiation theory, differentiation of set functions [See also 26A24.]

- Albano, L.; et al. 8361a, 8361b
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- Levin, Mirit; et al. 13174
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A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

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A25 Integration with respect to measures and other set functions

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A30 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.)

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A32 Measures on topological spaces (regularity of measures, etc.), spaces of measures, weak convergence of measures, etc. [See also 46E27, 60Bxx.]

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A35 Measures and integrals in product spaces

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A40 Measures and integrals in function spaces and linear spaces, Wiener measure [See also 46Cxx.]

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A45 Vector-valued and group-valued measures and integrals. Measures and integrals with values in general algebraic systems [See also 46G15.]

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| Airapetjan, G. M. | (3873) | Rosay, Jean-Pierre | (13272) |
| Borodin, V. O. | 5933 | Samojan, F. A. | 3452 |
| Burkholder, D. L. | 1944, (1945) | Sarason, Donald | (13690) |
| Dajović, V. | 5934 | Sedleckij, A. M. | 5935 |
| Davis, Burgess | (9238) | Collection of articles dedi- | |
| Felnerman, Robert P. | 899 | cated to the memory of | |
| Gosselin, R. P.; et al. | 900 | the Balkan mathematicians | |
| Govrisankaran, K. | (13270) | Constantin Carathéodory | |
| Ovaradse, M. I. | 10639 | Josip Plemelj, Dimitrie | |
| Hastings, William W. | (11082) | Pompeu and Gheorghe Tîpăica | |
| Hasumi, Morisuke | 901 | in connection with the | |
| Miles, Joseph | (10659) | first centenary of their | |
| Neuwirth, J.; et al. | 900 | birth | 5934 |
| Nikol'skij, N. K. | (11134) | Investigations on linear | |
| Pavlov, A. I. | (861) | operators and the theory | |
| Pranger, Walter | 13238 | of functions, IV 3452, (11134) | |

A80 Moment problems, interpolation problems

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| Ching, Chin Hung; et al. | 3453 | Olešnik, V. L. | 5937 |
| Chisholm, J. S. R.; et al. | 902 | Sorokin, G. A. | 3455 |
| Chui, Charles K.; et al. | 3453 | Thompson, Maynard | 904 |
| Filimonova, L. A. | (919) | Collection of articles dedi- | |
| Graves-Morris, P. R.; et al. | 902 | cated to J. L. Walsh on | |
| Ibragimov, I. I. | *5936 | his 75th birthday, II | 904 |
| Kotocigov, A. M. | 13239 | Investigations on linear | |
| Marshall, Donald E. | 903 | operators and the theory | |
| | | of functions | 5937, 13239 |

A82 Approximation in the complex domain

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| Basmakova, I. B. | 3454 | Hintzman, William | 10640 |
| Bojardiev, P. O. | 3456, 3457 | Roischen, Lothar | 3459 |
| Brown, Leon; et al. | 3458 | Householder, Alston S. | 905 |
| Fesciev, I. H. | (1207) | Jones, William B.; et al. | 10641 |
| Franzen, N. R. | (3757) | Kartasov, L. M. | 10642 |
| Gamelin, T. W.; et al. | 8425 | König, Helms | 10643 |
| Garnett, John; et al. | 8425 | Mason, J. C.; et al. | (1230) |
| Geddes, K. O.; et al. | (1230) | Menke, Klaus | 8426 |

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| Hershenjan, A. A. | 3460, 3461 | Collection of articles dedi- | |
| Øksendal, Berni | (8830) | cated to Helmut Hasse on | |
| Poreda, S. J. | 13240 | his seventy-fifth birthday | 10643 |
| Scheinberg, Stephen | 13241 | Collection of articles dedi- | |
| Shields, Allen L.; et al. | 3458 | cated to J. L. Walsh on | |
| Sirokov, R. A. | 3462 | his 75th birthday | 3464, (3757), 13240 |
| Subbotin, Ju. N. | (10960) | Constructive theory of | |
| Szabados, J. | (1215) | functions | (1215) |
| Szász, P. | 3463 | Linear operators and | |
| Tamasov, P. M. | 13242 | approximation | 10645 |
| Ter-Israeljan, L. A. | (1216) | Metric questions of the | |
| Thron, W. J.; et al. | 10641 | theory of functions and | |
| Veselinov, V. M. | (10964) | mappings, No. IV 10642, 10644 | |
| Volkov, Ju. I. | 10644 | Seminar on uniform algebras | |
| Wallin, Hans | 10645 | (Aberdeen, 1973) | (8830) |
| Widom, Harold | 3464 | Studies in numerical analysis | 905 |
| Collection of articles dedi- | | | |
| cated to Alberto González | | | |
| Dominguez on his sixty- | | | |
| fifth birthday | 8425 | | |

A86 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Bxx.]

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| Davis, Philip J. | 13243 | Zvirovic, E. I.; et al. | 8428 |
| Dimitrovski, Dragan S. | 8427 | Collection of articles dedi- | |
| Eberlein, W. F. | 3465 | cated to J. L. Walsh on | |
| Gahov, P. D.; et al. | 8428 | his 75th birthday, III | 13243 |
| Huskiwade, G. A. | 13244 | Proceedings of the Symposium | |
| Salimov, R. B. | 3466 | on Continuum Mechanics | |
| Sanku, S. G.; et al. | 8428 | and Related Problems of | |
| Sljusarova, K. M. | 8429 | Analysis | 13244 |

A88 Boundary value problems

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| Avastvili, N. D. | 3467 | Vanin, G. A. | 8432 |
| Cerednicenko, V. O. | (5941) | Zuravleva, M. I. | 3469 |
| Čirlikova, L. I. | (6317), 10646 | Zvirovic, E. I.; et al. | 3470 |
| Edelman, S. D.; et al. | (6318) | Zvirovic, L. F. | 13247 |
| Gogoneva, Sorin | 5938 | Collection of articles dedi- | |
| Govorov, N. V.; et al. | 13245 | cated to Aleksandr Petrovic | |
| Jacenko, S. A. | 906, 8430 | Norden on the occasion of | |
| Kac, B. A. | 10647 | his seventieth birthday | 10646 |
| Kryglor, V. E. | 907 | Differential and integral | |
| Kryzanovskij, I. A.; et al. | (6318) | equations with singular | |
| Kuznecov, N. K.; et al. | 13245 | coefficients | 10648 |
| Meister, E. | 13246 | Linear boundary value prob- | |
| Obnosov, Ju. V. | 908 | lem of mathematical | |
| Pletn'ova, T. G.; et al. | (6318) | physics | 906 |
| Pomeranceva, L. I.; et al. | 3470 | Studies of certain equations | |
| | | of mathematical physics | 3467 |
| Skopin, V. S.; et al. | (6318) | Theory of functions of a | |
| Slizkij, V. I. | 3468 | complex variable and bound- | |
| Usmanov, N. | 8431 | ary value problems | (6317) |
| Usmanov, Z. D. | 10648 | Überblicke Mathematik | |
| | | Band 6 | 13246 |

A94 p -analytic functions

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| Belova, M. M. | 8433 | Linear boundary value prob- | |
| | | lems of mathematical | |
| | | physics | 8433 |

A96 Other generalizations of analytic functions (including abstract-valued functions)

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| Kneis, Gert | (14135) | Leland, Kenneth O. | (13694) |
| Kvalitsina, I. V. | 5939 | Vasilescu, F.-M. | (1382) |

A97 Functions of hypercomplex variables and generalized variables

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|----------------|-------|--------------------|------|
| Braier, Alfred | 13248 | Rogulec, Marcel N. | 3471 |
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A98 Spaces and algebras of analytic functions [See also 46J15.]

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| Aharonov, D.; et al. | (1403) | Muhly, Paul S. | (10531) |
| Bobbio Guerrero, Pablo | 3472 | Shapiro, H. S.; et al. | (1403) |
| Brandstein, Alfred G. | (3874) | Shields, A. L.; et al. | (1403) |
| Coradas, G. L. | 3473 | Weiss, Max L. | 8435 |
| Dickson, D. G. | 10649 | Young, Robert M. | 13249 |
| Eklav, Keith A. | 3474 | Proceedings of the Annual | |
| Hayashi, Mikihiro | (3906) | Conference of Spanish | |
| Kaditz, Helmut | 8434 | Mathematicians, Eleventh | |
| Krasnikov-Ternovskij, I. P. | 3475 | (Murcia, 1970) | 3472 |

A99 None of the above, but in this section

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| Gurganus, Kenneth R. | 10670 |
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31-XX POTENTIAL THEORY (For probabilistic potential theory, see 60J45.)

02 Advanced exposition (research surveys, etc.)

- | | |
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| Brelot, M. | 8436 |
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03 Historical

Brelot, M. 8436

06 Collection of papers; proceedings of conferences

- (Rauer, Heinz) *5940 Seminar on Potential Theory,
(Král, Josef) *1079 II *5940
Nonlinear evolution equations and potential theory (*1079)
Potential theory (*1079), *5940
Proceedings of a Summer School on Nonlinear Evolution Equations and Potential Theory (*1079)

31Axx Two-dimensional theory

A05 Harmonic, subharmonic, superharmonic functions

- Cahill, Rotraut Goubau (3450) Mugler, Dale H. 13250
Davis, Burgess (9238) Rao, Murali 10650
Gupta, V. K.; et al. 3476 Stoll, M. 8437
Jain, P. K.; et al. 3476

A10 Integral representations

Heins, Albert E. (6308)

A15 Potentials and capacity, harmonic measure, extremal length

- Meyers, Norman G. 3477 Yosida, Tokunobu 8438
Schulze, Bert-Wolfgang 3478

A20 Boundary behavior (Fatou type theorems, etc.)

- Hornblower, R. J. M. 896 Talpur, M. N. M. 13251

A25 Boundary value and inverse problems

- Čeredničenko, V. G. 5941, 8439 Tepper, David E. 3479
Keckić, Jovan D. 5942 Vasil'ev, B. A. 5943

A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Atahodžev, M. A. 13252

31Bxx Higher dimensional theory

B05 Harmonic, subharmonic, superharmonic functions

- Burkholder, D. L. (1945) Marden, Morris 3481, 10653
Burkholder, D. L.; et al. (1943) Veech, William A. (6293)
D'Neali, G. A. 3480 Wanby, Gëran (3680)
Essén, Mats 10651 Collection of articles dedicated to J. L. Walsh on his 75th birthday, IV 3481
Gariery, Ronald; et al. 10652 Topics in analysis (Colloq. Math. Anal., Jyväskylä, 1970) 10651, 10653
Gundy, R. F.; et al. (1943)
Janusauskas, A. 909, 13254, 13255, 13256, (13437)
Lewis, John L.; et al. 10652

B10 Integral representations

Itô, Masayuki 8440 Novickij, M. V. 10654

B15 Potentials and capacities, extremal length

- Anger, Bernd 3482 Lewis, John L. 10656
Essén, Mats; et al. 10655 Maz'ja, V. G. 5945
Jackson, H. L. 5944 Väisälä, Jussi 8441
Jackson, Howard L.; et al. 10655 Wildenhain, Günther 3483

B20 Boundary value and inverse problems

- Atahodžev, M. A. (10920) Love, E. R. 3487
Efimov, A. B.; et al. 5946 Peskoff, A. 3488
Ernakov, V. I. 5947 Prilepko, A. I. 910
Filatov, V. G. (7578) Rusia, K. C.; et al. 3484
Gupta, H. L.; et al. 3485 Saak, E. M. 5950
Homentcovskii, D. 3486 Vorob'ev, V. N.; et al. 5946
Ho-Van ThieSi 3486 Boundary value problems for differential equations, 3 (10920)
Janusauskas, A. 5948
Lancollini, Ermanno 8442
Lavrenjuk, S. P. 5949

B25 Boundary behavior

Pavlov, G. A. 5951

B30 Biharmonic and polyharmonic equations and functions

- Hemil, Ju. M. 13257 Mathematical physics, No. 15
Žemuhov, H. K. 911 13257

B35 Connections with differential equations

Albinus, Günter (1101) Ritter, G. 13258

B99 None of the above, but in this section

Armitage, D. H. 8443

31Cxx Other generalizations

C05 Harmonic, subharmonic, superharmonic functions

- Bliebtner, Jürgen 13259 Nakai, Mitsuru (13217)
Chou, Kwang Nan (8405) Séminaire de Probabilités, V
Ichim, Ion 10657 13260, 13261
Goodman, Victor (1979) Théorie du potentiel et analyse harmonique 13259
Kwon, Y. K.; et al. 8444
Meyer, P. A. 13260, 13261

C10 Pluriharmonic and plurisubharmonic functions [See also 32F05.]

Šopf, G. (5957)

C15 Potentials and capacities

- Dellacherie, C. (8359) Maitani, Fumio (13253)
Glasner, Moses 13262 Matsui, Michele 13264
Higuti, Isao 8445 Séminaire de Probabilités (8359)
Kawynowicz, J. 13263

C20 Discrete potential theory and numerical methods

- Klunnik, O. O. (9533) Mastin, C. Wayne (9534)
Makarov, V. I.; et al. (9533)

C99 None of the above, but in this section

- Hirsch, Francis; et al. (3960) Théorie du potentiel et analyse harmonique (3960)
Roth, Jean-Pierre; et al. (3960)

31D05 Axiomatic potential theory

- Bliebtner, Jürgen; et al. 912 Kemper, John T.; et al. 8447
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Feyel, D.; et al. 3489, 8446 Lukeš, Jaroslav; et al. 5952
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Jones, B. Frank, Jr.; et al. 8447 Tissier, Gilles 5954

32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES

01 Elementary exposition (collegiate level)

Fritzsche, Klaus; et al. *8448 Grauert, Hans; et al. *8448

06 Collection of papers; proceedings of conferences

- (Chern, S. S.) (6864) Fonctions de plusieurs variables complexes, II (Sém. Gherardelli, F.) *13268 François Norguet, Janvier 1974-Juin 1975 *13269
(Norguet, François) *13269 (Osseman, R.) *6864 Plusieurs variables complexes *13269
Centro Internazionale Matematico Estivo, 1973, I Ciclo (Bressanone) *13268 Proceedings of Symposia in Pure Mathematics, Vol. XXVII, Part 2 (*6864)
Complex analysis (Centro Internaz. Mat. Estivo, I Ciclo, Bressanone, 1973) *13268 Séminaire François Norguet, Janvier 1974-Juin 1975 *13269
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) (*6864) Several complex variables *13269
Summer Research Institute of the American Mathematical Society, Twentieth (Stanford Univ., Stanford, Calif., 1973) (*6864)

32Axx Holomorphic functions of several complex variables

A05 Power series, series of functions

- Čulik, I. I. 916 Pinhofer, Gottfried 917
Hudaibergenov, G. 3492 Table Ronde d'Analyse non archimédienne (1972, Paris) 938
Motkin, E. 938
Ramadanov, I. P. (936)
Takano, Kyōichi 8449

A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

- Lazov, R. (922) Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) (922)
Ramadanov, I. P. (10697)

A10 Holomorphic functions

- Carmichael, Richard D.; et al. (13675)
 Goldschmidt, Bernd (10846)
 Gowrisankaran, K. 13270
 Juzakov, A. P. 10658
 Juzakov, A. P.; et al. 10660
 Landucci, Mario 13271

A15 Entire functions

- Alexander, Herbert 5956
 Berenstein, C. A.; et al. (13285)
 Dostal, M. A.; et al. (13285)
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A17 Normal families

- Barth, Theodore J. 10662

A25 Integral representation and residue theory

- Baum, Paul; et al. (14092)
 Bavrin, I. I. 10663, 10664
 Bott, Raoul; et al. (14092)
 Dolbeault, Pierre (13280)
 El Zein, Fouad 921
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 Ruget, Gabriel 10666

A30 Other generalizations of function theory of one complex variable [For functions of several hypercomplex variables, see 30A97.]

- Ahlfors, Lars V. (3431)
 Chisholm, J. S. R.; et al. (902)
 Graves-Morris, P. R.; et al. (902)
 Hastings, William W. (11082)
 Koochara, Akira 10668

A99 None of the above, but in this section

- Freeman, Michael 10669

32Bxx Local analytic geometry (See also 13—XX and 14—XX.)

B05 Analytic algebras and generalizations, preparation theorems

- Bochnak, J. 13273
 Efroymsen, G. (495)
 Escassut, Alain 10671
 Maset, P. 10672
 Merrien, Jean (1870)
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 Płoski, A. 3499
 Risler, Jean-Jacques (489, 1871)
 Rocgen, M. 923
 Varcken, A. N. 3500

B10 Germs of analytic sets

- Weispfenning, Volker (2296)

B20 Semi-analytic sets

- Bochnak, Jacek (13274)
 Hardt, Robert M. 8453
 Hironaka, Heisuke (10331, 13275)
 Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) (10331)

32Cxx General theory of analytic spaces

- Miles, Joseph 10659
 Milton, E. O.; et al. (13675)
 Odvirkko-Budko, B. I. 3493
 Orehovskij, Z. B.; et al. 10660
 Rosay, Jean-Pierre 13272
 Sadullaev, A. 918
 Schneider, Robert B. 5955

- Kamthan, P. K.; et al. 8450
 Lelong, Pierre 10661
 Šopf, G. 5957
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- Watanabe, Chikara 5958, 5959

- Seckin, G. I. 3496
 Stout, Edgar Lee 5963
 Tong, Yue Lin L. 3497
 Zanghirati, Luisa 8452
 Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) 922
 Fonctions de plusieurs variables complexes (Sém. François Norguet, 1970-1973) 5960, 5961
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- Odvirkko-Budko, B. I. 3498
 Vasilescu, F.-H. (1382)
 Contributions to analysis (a collection of papers dedicated to Lipman Bers) (3431)

- Obolashvili, E. I. (3731)

- Fonctions de plusieurs variables complexes (Sém. François Norguet, 1970-1973) (489, 1871)
 Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1968-1969, Fasc. 2 (1870)
 Séminaire Pierre Lelong (Analyse), Année 1970 10672, 10673

- Number theory, algebraic geometry and commutative algebra, in honor of Yasuo Akisuki (13275)

C05 Real-analytic manifolds, real-analytic spaces

- Acquistapace, F.; et al. 3501
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 Broglia, F.; et al. 3501
 Galbiati, M.; et al. (493)
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- Tognoli, A.; et al. (493), 3501
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C10 Complex manifolds [For almost complex manifolds, see 53C15.]

- Iitaka, Shigeru 3502
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 Sullivan, D. (6838)
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- Differentialgeometrie in Großen (Ber. Tagung, Math. Forschungsinstit., Oberwolfach, 1969) 924
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C15 Complex spaces

- Suzuki, Masakazu 8454

C20 Normal analytic spaces

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- Matsunaga, Hiromichi 5964

C25 Analytic subsets and submanifolds

- Corralba, Maurizio; et al. 3505
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 Tougeron, Jean-Claude 3506
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- Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1968-1969, Fasc. 2 3506
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C30 Integration on analytic sets and spaces

- Bloom, Thomas 10675
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- Journées de géométrie analytique (Univ. Poitiers, Poitiers, 1972) (4303)
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C35 Analytic sheaves and cohomology groups [See also 18P20, 55B30.]

- Cassa, Antonio 10676
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- Ramis, J. P. 10677
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- Quelques problèmes de modules (Séminaire, 1971-1972) 3508, 3509, 3513

C40 Singularities

- A'Campo, Norbert (8106), 13282
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 Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 1) (11546)
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C40 *Continued*

- Quelques problèmes de modules (Séminaire, 1971-1972) (5974)
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- Singularités à Cargèse (1972) (3177), 3517, (5591), 10682

C45 *Modifications, resolution of singularities [See also 14E15.1]*

- Ancona, Vincenzo 10683
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- Watanabe, Kimio; et al. 927
Classification of algebraic varieties and compact complex manifolds (5978)
Complex analysis, 1972, Vol. I 3519

32Dxx *Analytic continuation*D10 *Envelopes of holomorphy*

- Sibony, Nessim (13286)
Siciak, Jozef 10687
- Séminaire Pierre Lelong (Analyse), Année 1967-1969 10687, (13286)

D15 *Continuation of analytic objects*

- Andronikof, Emmanuel 10688
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D20 *Removable singularities*

- Harvey, Reese (925)

D99 *None of the above, but in this section*

- Matos, Mário C. (1395)

32Exx *Holomorphic convexity*E05 *Holomorphically convex complex spaces, reduction theory*

- Coen, S. (5969)
Cœuré, Gérard (11108)
- Hirschowitz, A. 3523
Stout, E. L. 3524

E10 *Stein spaces, Stein manifolds*

- Acquistapace, F.; et al. 5968
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Bingener, Jürgen; et al. 3525
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Brun, Jérôme 940
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- Kim, Dong S. 3527
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Speder, Jean-Paul; et al. (941)
Stehlé, Jean-Luc (10693)
Storch, Uwe; et al. 3525
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E15 *Runge pairs*

- Cœuré, Gérard (3902)
Pops, Nicolae 8464
- Silva, Alessandro 3528

E20 *Polynomial convexity*

- Shackell, John R. 3529

E25 *Algebras of holomorphic functions*

- Berenstein, C. A.; et al. 13285
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Werner, J. 933
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- Prolongement analytique et algèbres de Banach ultramétriques 930
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- Dimiev, S. (1380)
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Mihaïlova, T. S. (6380)
Sakai, Akira 13287
Sibony, Nessim 934
Wermer, John 10691
- Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) (1380)
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32Fxx *Geometric convexity*F05 *Plurisubharmonic functions and generalizations [See also 31C10.1]*

- Malliavin, Paul 10692
Modica, Luciano 13288
- Stehlé, Jean-Luc 10693

F10 *q-convexity, q-concavity*

- Eto, Shun Ichi; et al. 935
de Graeve, Renée 8465
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- Siegfried, Pierre (3514)
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- Barlet, Daniel 5970
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- Vormoor, Norbert (3540)
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F99 *None of the above, but in this section [For the theory of the $\bar{\partial}$ -Neumann problem on pseudocconvex domains, see 35N15.1]*

- Graham, Ian 8468

32Gxx *Deformations of analytic structures*G05 *Deformations of complex structures [See also 13D10, 16A58, 58H05.1]*

- Brieskorn, E.; et al. (3515)
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Forster, O.; et al. 10695
Greuel, G.-M.; et al. (3515)
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- Knorr, K.; et al. 10695
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G10 *Deformations of submanifolds and subspaces*

- Ioffe, M. S. (3424)
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- Quelques problèmes de modules (Séminaire, 1971-1972) 5974

G13 *Analytic moduli problems [For algebraic moduli problems, see, 14D20.1]*

- Housel, Christian 3534
Namba, Makoto 13289
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Schuster, Hans Werner; et al. 3536
- Shiga, Hironori (3545)
Wiegmann, Klaus Werner; et al. 3536
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G15 *Moduli of Riemann surfaces, Teichmüller theory [See also 30A46.1]*

- Accola, Robert D. M. (10611)
Bers, Lipman 10696
Harvey, W. J.; et al. (10614)
Harvey, William (883)
Hejhal, Dennis A. (884, 3427, 13215a, 13215b)
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- Rochberg, Richard (13216)
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G20 *Period matrices*

- Saito, K. (12846)
Sato, Hiroki (5922)
- Quelques journées singulières (12846)

G99 *None of the above, but in this section*

- Horikawa, Eiji 8470
Lieberman, D.; et al. (8481)
- Serenesi, E.; et al. (8481)
Manifolds--Tokyo 1973 8470

32Hxx Analytic mappings**H05 Representative domains**

Bergman, Stefan 3537, 13291
 Matsuura, Shozo 8471
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H10 Bergman kernel function

Egoryčev, G. P. 8472
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H15 Invariant metrics and pseudodistances

Campbell, L. Andres; et al. 8474
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 Hahn, Kyong T. (4305), 5975
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 Ogawa, Roy H.; et al. 8474

Royden, H. L. (13290)
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H20 Hyperbolic complex manifolds

Barth, Theodore J. (10662)
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 Kiernan, Peter 8476
 L'vovskii, M. N. 5976

Pelles, Donald Alfred 3542
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 Symposia Mathematics,
 Vol. X 3541

H25 Poincaré type theorems and generalizations

Barbosa, João Lucas Marques (11362)
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 Fujimoto, Hirotsuka 3543
 Gauthier, P. M.; et al. 8477

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H99 None of the above, but in this section

Chern, Shing Shen (6840)
 Horikawa, Eiichi (8470)
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Proceedings of the Biennial
 Seminar of the Canadian
 Mathematical Congress,
 Thirteenth (Dalhousie
 Univ., Halifax, N. S.,
 1971), Vol. 1 (6840)

32Jxx Compact analytic spaces (For Riemann surfaces, see 14Hxx, 30A46.)**J05 Compactification**

Shiga, Hironori 3545

Zanoboni, S.; et al. 8480

J10 Algebraic dependence theorems

Huckleberry, Alan T. 3546

J15 Compact surfaces [See also 14Jxx.]

Carrell, James; et al. 8478
 Howard, Alan; et al. 8478
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 Kosniowski, Ozes; et al. 8478
 Namikawa, Yukihiko; et al. (5595)

Suwa, Tatsuo 5977
 Ueno, Kenji; et al. (5595)
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J20 Algebraicity criteria

Mofsezon, B. G. 5978

J25 Transcendental methods of algebraic geometry [See also 14C30.]

Barth, Wolf 13296
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 Gerstner, Otto; et al. 3547
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 Kaup, Ludger; et al. 13297, 3547
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 Wells, R. O., Jr. 3549
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 Algebraic geometry, Oslo 1970 (8109)
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 Journées de géométrie analytique (Univ. Poitiers, Poitiers, 1972) (9078)
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J99 None of the above, but in this section

Krasnov, V. A. (10685)
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32Kxx Generalizations of analytic spaces**K10 Nonarchimedean analytic spaces**

Escassut, Alain (930, 8461, 11111)
 Gruson, L.; et al. (1426)
 Monna, A. F. (1345)
 Motzkin, Elhanan (3520)
 van der Put, M.; et al. (1426)
 Robba, P. (498, 3521, 3522)
 Sarmant, Marie-Claude 3550
 Colloque de Théorie des Nombres (Bordeaux, 1969) (3520)

Journées Arithmétiques de Bordeaux (Conf., Univ. Bordeaux, Bordeaux, 1974) (11111)
 Prolongement analytique et algébres de Banach ultramétriques (930)
 Table Ronde d'Analyse non archimédienne (1972, Paris) (1345), 1426, (3521, 3522, 8461)

K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25.]

Bloom, Thomas (11590)
 Folland, G. B.; et al. (3719)
 Stein, E. M.; et al. (3719)

Séminaire Pierre Lelong (Analyse), Année 1970-1971 (11590)

32Lxx Holomorphic fiber spaces [See also 55Fxx.]**L05 Holomorphic fiber bundles and generalizations**

Baum Paul 13298
 Cornalba, Maurizio; et al. 3505
 Cowen, Michael J. (13292)
 Gauduchon, Paul 3551

Griffiths, Phillip; et al. 3505
 Matsunaga, Hiromichi (5964)
 Ramanathan, A. 5979
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L10 Sheaves and cohomology of sections of holomorphic vector bundles [See also 18F20, 55B30.]

Eto, Shun Ichi; et al. (935)
 Kazama, Hideaki; et al. (935)
 Kobayashi, Shoshichi 13299
 Le Potier, Joseph 3553
 Maltzinkotis, Georges 3552
 Nakano, Shigeo (10340)
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 Verdier, J. L. 3554
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 Différents aspects de la positivité 3552, 3554

Journées de géométrie analytique (Univ. Poitiers, Poitiers, 1972) 3553
 Number theory, algebraic geometry and commutative algebra, in honor of Yasuo Akizuki 3555

32Mxx Complex spaces with a group of automorphisms**M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10.]**

Ancona, Vincenzo; et al. 941
 Barth, Wolf; et al. 13300
 Cathelineau, Jean-Louis 5980
 Lejeune-Jalabert, M. 13301
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 Namba, Makoto (13289)
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Richardson, R. W., Jr. 13302
 Sommes, Andrew J. 8484
 Speder, Jean-Paul; et al. 941
 Suwa, Tatsuo (5977)
 Takeuchi, Shigeru 8483
 Quelques journées singulières 13301

M10 Homogeneous complex manifolds [See also 57F15.]

Hano, Jun-ichi 3557
 Nakajima, Kazufumi (3556)
 Nakamura, Iku 10700
 Tsuji, Tadaaki (10701)
 Venturini, Edoardo (6295)

Wolf, Joseph A. 943
 Manifolds--Tokyo 1973 10700

M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57F15.]

Gindikin, S. G. (13595)
 Meschieri, Mauro 3558
 Murakami, Shingo 944

Nakajima, Kazufumi 3559, 5981
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32Nxx Automorphic functions [See also 10Dxx, 20H10, 22E40, 30A58.]**N05 General theory of automorphic functions of several complex variables**

Chen, Su Shing; et al. (13934)
 Greenberg, L. (13934)

Contributions to analysis (a collection of papers dedicated to Lipman Bers) (13934)

N10 Automorphic forms

Cohn, Leslie 3560

Lehner, Joseph 3561

N15 Automorphic functions in symmetric domains

- Baily, Walter L., Jr. 3562, 5982 Seminar on Modern Methods
in Number Theory (Inst.
Shimizu, Hideo (10235) Statist. Math., Tokyo,
Number theory, algebraic 1971)
geometry and commutative
algebra, in honor of Yasuo
Akizuki 3562

W99 None of the above, but in this section

- Murakami, Shingo (944) Tsao, Liang Chi 383

33—XX SPECIAL FUNCTIONS (33—XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42A52. Expansions in orthogonal functions are treated in 42A56.)

01 Elementary exposition (collegiate level)

- Lučevskič, D. (816)

02 Advanced exposition (research surveys, etc.)

- Carlitz, L. (7891)

03 Historical

- Brakksma, B. L. J. (10009) Obituary: Meijer, C. S. (10009)
(Meijer, C. S.) (10009)
Bibliography: Meijer, C. S. (10009)

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A10 Exponential and trigonometric functions

- Bach, G. 5983 Festband anlässlich des 65.
Glasser, M. L. 3563 Geburtstages von Ernst
Ling, Chih Bing 946 Peschl 8485
Raab, Werner 8485

A15 Gamma and beta functions

- Slavič, Dušan V. 10704 Papers presented at the
Stanković, J.; et al. 10703 Balkan Mathematical
Žižović, M. R.; et al. 10703 Congress, Fifth (Belgrade,
1974) 10703

A20 Error function, probability integral

- Frank, Evelyn (11931) Topics in analysis (Colloq.
Hadi, P. I. 4504 Math. Anal., Jyväskylä,
Wagnibida, M. I. (13660) 1970) (11931)

A25 Elliptic functions and integrals

- Cook, Grant; et al. 3564 Turán, P.; et al. (12760)
Markas, H. M. 10705 Contributions to analysis
Ferguson, Helaman Rolfe (a collection of papers
Pratt; et al. 3564 dedicated to Lipman Bers)
Marchlik, Tadeusz 3565 10705
Nielsen, Dale E.; et al. 3564

A30 Hypergeometric functions of one and several variables, generalizations

- Abiodun, R. F. A.; et al. 13303 Panda, Rekha 8489
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A35 E functions, G functions, H functions, etc.

- Agrawal, I.; et al. 951 Parihar, C. L. 13311
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A40 Cylindrical functions, Bessel functions

- Bhowmick, K. N.; et al. 5997 Mainra, V. P.; et al. 5996
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A45 Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials

- Ainsworth, O. R.; et al. 958 Saxena, R. K.; et al. 13313
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Heersink, Rudolf; et al. (8599) Geburtstages von Ernst
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A55 Lamé, Mathieu, spheroidal wave functions

- Computation of Mathieu func- Numerical analysis 3579
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The Group "Numerical Analy-
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of Technology 3579

A65 Orthogonal special functions and polynomials (Chebyshev, Hermite, Jacobi, Laguerre, etc.)

- Agrawal, B. D.; et al. 5998 Joshi, C. M.; et al. 5999
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Griffiths, R. C. (9155) tions (Proc. Internat.
Harris, Lawrence A.; et al. 8501 Conf., Varna, 1970) 8503
Ismail, Mourad E. H.; et al. (8680) Linear operators and approxi-
mation (8726)

A70 Other special functions

- Barber, Michael N.; et al. 963 Kölbig, K. S.; et al. (5513)
Barwell, V. K.; et al. (14528) Neuman, C. P.; et al. 3583
Buschman, R. G.; et al. 6001 Panda, Rekha 964
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A75 Special functions and Lie groups

- Boyer, C. P.; et al. (8593g, 8593h) Miller, Willard, Jr. (8593a, 8593b), 10724
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 James, Alan T.; et al. 10723 Takahashi, Reiji (1298)
 Kainins, E. G.; et al. (8593c, 8593d, 8593e) Théorie du potentiel et analyse harmonique (1298)
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 Miller, W., Jr.; et al. (8593c, 8593d, 8593e) (8593f, 8593g, 8593h)

34-XX ORDINARY DIFFERENTIAL EQUATIONS

01 Elementary exposition (collegiate level)

- Aulin, Allan; et al. (820) Grauert, Hans; et al. (819)
 Fischer, Wolfgang; et al. (819) Lieb, Ingo; et al. (819)
 Fröberg, Carl-Erik; et al. (820) Vainstein, I. A. (819)

03 Historical

- Bobrowski, Dobiesław (5234)

04 Explicit machine computation and programs (not the theory of computation or programming)

- Vuletić, Veljko 10702 Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 10702

06 Collections of papers; proceedings of conferences

- (Antoniowicz, H. A.) 966
 (Chillingworth, David) 6004
 (Ghisetti, Aldo) 6006
 (Harris, William A., Jr.) 6007
 (Hsieh, F. F.) 6002
 (Sibuya, Yasutaka) 6007
 (Stoddart, A. W. J.) 6002
 (Turriffin, Hugh L.) 6007
 (Urabe, Minoru) 6003
 (Yorke, J. A.) 6005
 Analytic theory of differential equations (Proc. Conf., Western Michigan Univ., Kalamazoo, Mich., 1970) 6002
 Differential equations 966
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 Conference on Analytic Theory of Differential Equations (Western Michigan Univ., Kalamazoo, Mich., 1970) 6002
 Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 966
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 International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 966
 Japan-United States Seminar on Ordinary Differential and Functional Equations (Kyoto, 1971) 6003
 Ordinary differential equations 6003, 6007

34Axx General theory

A05 Solutions in closed form, integration by quadratures, reduction of differential equations

- Dasarathy, Belur V. 13316 Viner, I. Ja. 13318
 Eric Rodríguez, Francisco Javier 10725 Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 8505, 13317
 Karanikolov, Hristo 8505 Proceedings of the Conference of Portuguese and Spanish Mathematicians, First (Lisbon, 1972) 10726
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A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions

- Čanturija, T. A. 13319 Stanković, Bogoljub (8762)
 Persson, Jan 8506 Witte, Jürgen 13320

A20 Differential equations in the complex domain [See also 30A70.]

- Bank, Steven (10630) Nepitvor'onna, L. M. 970
 Danilova, E. I.; et al. 8507 Schuster, Wolfgang 13324
 Dimitrov, Dimit'r G. 10727 Sibuya, Yasutaka; et al. 8508
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Rothman, Neal J. 3796
Young, N. J.; et al. 1282
Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) (6266)
Théorie du potentiel et analyse harmonique (10745)

A22 Homomorphisms and multipliers of function spaces on groups

Burnham, James T.; et al. 1284
Fisher, Michael J. 8744
Gilbert, John E. 8745
Gillespie, T. A. (13752)
Goldberg, Richard R.; et al. 1284
Holland, Finbarr 11013
Kerlin, J. Edward 8746
Krogstad, Harald E. 11014
Lit, T. S.; et al. 1285
Lohoué, N.; et al. 8741
Máté, L. 1286
Oberlin, Daniel M. 6290

Peyrière, J.; et al. 8741
van Rooij, A. C. M.; et al. 1285
Rudin, Walter 3797
Wells, Benjamin B., Jr. 6291
Collection of articles in celebration of the sixtieth birthday of Ky Fan 1284
Collection of articles dedicated to G. G. Lorents on the occasion of his sixtieth birthday, II 8745

A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

Blei, Ron C. 3798
Chaney, R. W. (11000)
Dressler, Robert E.; et al. 11015
Kohen, A. W. 3799
de Michele, Leonede; et al. 11016
Pigno, Louis 6292, 13588

Pigno, Louis; et al. 11015, 13589
Sakai, Sadahiro; et al. 13589
Soardi, Paolo M.; et al. 11016
Table Ronde d'Analyse non archimédienne (1972, Paris) 3799

A30 Fourier and Fourier-Stieltjes transforms on non-abelian groups and on semigroups

Cecchini, Carlo 11017
Gomes, A. Pereira 13590
Gosselin, R. P. 8747
de Michele, Leonede; et al. 8800

Soardi, Paolo Maurizio; et al. 3800
Séminaire Pierre Lelong (Analyse), Année 1969 13590

A35 Positive definite functions on groups

Ataman, Yağar (13582)
Cooper, J. L. B. 11018
Henrichs, Rolf Win (788)
Horn, Roger A. 11019
Korsunskii, L. M. 1287, 1288

Parthasarathy, K. R.; et al. (6907)
Schmidt, K.; et al. (6907)
Veech, William A. 6293
Linear operators and approximation 11018

A45 Spectral synthesis on groups and semigroups

Basov, A. V. 13591
Makarychev, V. P. 13592
Meyer, Yves (10281)

Sakai, Sadahiro 8748
Journées Arithmétiques (1973, Grenoble) (10281)

A46 Special sets (thin sets, Helson sets, Kronecker sets, Sidon sets, etc.)

- | | | | |
|-----------------------------|---------|-----------------------------|-------|
| Bled, Ron C. | (3798) | McGehee, O. Carruth; et al. | |
| Cecchini, Carlo | (11017) | | 1289 |
| Dressler, Robert E.; et al. | | Pigno, Louis; et al. | 11020 |
| | 11020 | Rider, Daniel | 3801 |
| Izuchi, Keiji | 8749 | | |
| Katznelson, Yitzhak; et al. | 1289 | | |

A60 Almost periodic functions on groups and semigroups

- | | | | |
|-------------------|-------|---------------------|-------|
| Glicksberg, I. | 8750 | Scherbakov, B. A. | 1290 |
| Lovicar, Vladimir | 6294 | Woodward, Gordon S. | 11021 |
| Muni, Giuseppe | 13593 | | |

A65 Representations of groups and semigroups

- | | |
|----------------|------|
| Brauns, Günter | 1291 |
|----------------|------|

A70 Analysis on specific locally compact abelian groups [See also 12A85.]

- | | | | |
|------------------------|-------------|-----------------------------|--------|
| Roseck, H.; et al. | 11022 | Schempp, Walter; et al. | (8710) |
| Chao, Jia Anng | 1292, 11023 | Schreiber, Jean-Pierre | (416) |
| Czichowski, G.; et al. | 11022 | Visiting scholars' lectures | |
| Daly, James E. | 8751 | (Texas Tech Univ., | |
| Dresler, Bernd; et al. | (8710) | Lubbock, Tex., 1978/71) | 1293 |
| Helson, Henry | 1293 | | |

A75 Analysis on specific compact groups

- | | | | |
|--------------------|------|----------------------------|------|
| Lagzdips, A. | 3802 | Latvian mathematical year- | |
| Vesentini, Edoardo | 6295 | book, 15 | 3802 |
| Vretare, Lars | 6296 | | |

A80 Analysis on other specific Lie groups

- | | | | |
|---------------------|--------|--------------|-------|
| Eguchi, Masaaki | (5848) | Lohoué, Noël | 13594 |
| Johnson, Kenneth D. | (5849) | | |

A85 Analysis on homogeneous spaces

- | | | | |
|--------------------------------|------------|------------------------------|--------|
| Carmichael, Richard D.; et al. | | Roth, Jean-Pierre; et al. | (3960) |
| | (13675) | Rubel, L. A.; et al. | (1280) |
| Clerc, J. L.; et al. | 3803 | Stein, E. M.; et al. | 3803 |
| Faraut, Jacques; et al. | | Stoll, Manfred | (945) |
| | 1294, 1295 | Tanaka, Makoto; et al. | (804) |
| Gindigin, S. G. | 13595 | Uspenskiĭ, S. V. | 11024 |
| Harzallah, K. | 1296 | Vesentini, Edoardo | (6295) |
| Harzallah, Khélifa; et al. | | Application of functional | |
| | 1294, 1295 | methods to the boundary | |
| Helgason, Sigurdur (3353), | 3804 | value problems of mathe- | |
| Hirsch, Francis; et al. | (3960) | matical physics | 11024 |
| Hu, Men Chang | 6297 | Collection of articles dedi- | |
| Inoue, Toru; et al. | (804) | cated to G. G. Lorentz on | |
| Miletta, Peter | 6298 | the occasion of his sixty- | |
| Milton, E. O.; et al. | (13675) | fifth birthday, I | (1280) |
| Okamoto, Kiyosato; et al. | (804) | Théorie du potentiel et ana- | |
| Ragazin, David L. | 1297 | lyse harmonique 1296, (3960) | |
| Ranga Rao, R.; et al. | (1280) | | |
| Roth, Jean-Pierre | (3961) | | |

A90 Spherical functions

- | | | | |
|---------------------------------|-------|------------------------------|------|
| Flensted-Jensen, Mogens; et al. | | Takahashi, Reiji | 1298 |
| | (807) | Théorie du potentiel et ana- | |
| Ragazin, David L.; et al. | (807) | lyse harmonique | 1298 |

A95 Categorical methods [See also 18-XX.]

- | | |
|--------------------|---------|
| Greene, William A. | (13127) |
|--------------------|---------|

44-XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS (For fractional derivatives and integrals, see 26A33.)

03 Historical

- | | | | |
|-----------------------------|---------|-------------------------|---------|
| Braaksma, B. L. J. | (10009) | Obituary: Meijer, C. S. | (10009) |
| (Meijer, C. S.) | (10009) | | |
| Bibliography: Meijer, C. S. | | | |
| | (10009) | | |

A05 General transforms [See also 42A76.]

- | | |
|---------------------|------|
| Kawabata, Shigetoku | 3805 |
|---------------------|------|

A10 Laplace transform

- | | | | |
|---------------------------|---------|------------------------------|---------|
| Berg, L. | 11025 | Samar, M. S. | (11035) |
| de Bertini, B. M.; et al. | 6299 | Shah, Manilal | (3572) |
| Cifru, Mircea | (3896) | Williams, J. J.; et al. | (3935) |
| Heinig, Hans P. | (13163) | Wong, R. | 3806 |
| Hetnarski, Richard B. | 1299 | Wong, R.; et al. | (3935) |
| Kalla, S. L.; et al. | 6299 | Bibliography: Laplace trans- | |
| Kuczma, Marek | 8752 | form inversion | 11933 |
| Mugler, Dale H. | (13250) | Functional equations in the | |
| Plessens, Robert | (11933) | theory of stochastic pro- | |
| | | cesses | 8752 |
| Price, Douglas B. | (3898) | | |
| Saakjan, B. A. | (3378) | | |

A15 Special transforms (Legendre, Hilbert, etc.)

- | | | | |
|----------------------------|---------|-----------------------------|---------|
| Al-Bassam, M. A. | 11026 | Sahal, Gopal Ji | 3810 |
| de Amin, L. H.; et al. | 8753 | Sändig, Anna-Margarete | 11030 |
| Bartošević, M. A. | 11027 | Saxena, R. K. | 8757 |
| Bhise, V. M. | 1300 | Saxena, R. K.; et al. | 3807 |
| Bora, S. L.; et al. | 3807 | Vyas, R. G. | 6301 |
| Cain, Gerald D. | 1301 | Fractional calculus and its | |
| Clancey, Kevin F. | (13769) | applications (Proc. Inter- | |
| Dahiya, R. S. | 13596 | nat. Conf., Univ. New | |
| de Del Pino, M. E. Niewa | 3808 | Haven, West Haven, Conn., | |
| Frontini de Battig, N. E. | 6300 | 1974) | (*3369) |
| González de Galindo, S. E. | 8754 | International Conference on | |
| Gupta, H. L.; et al. | 8755 | Fractional Calculus and | |
| Jerri, Abdul J.; et al. | 1302 | its applications (Univ. | |
| Kalla, S. L. | 3809 | New Haven, West Haven, | |
| Kalla, S. L.; et al. | 8753 | Conn., 1974) | (*3369) |
| Koornwinder, Tom | 11028 | Proceedings of the Interna- | |
| Kreiser, Dale W.; et al. | 1302 | tional Conference on | |
| Mishra, Ramadhar | 8756 | Fractional Calculus and | |
| Nigam, H. N. | 11029 | it Applications (Univ. New | |
| Rom, Raphael | (14674) | Haven, West Haven, Conn., | |
| (Ross, Bertram) | (*3369) | 1974) | (*3369) |
| Rusia, K. C.; et al. | 8755 | | |

A20 Transforms of special functions

- | | | | |
|----------------------|-------|---------------------------|-------|
| Gupta, K. C.; et al. | 3811 | Samar, M. S.; et al. | 11031 |
| Nair, V. C.; et al. | 11031 | Srivastava, Aruna; et al. | 3811 |

A25 Singular integrals (Calderón-Zygmund, etc.) [See also 47G05.]

- | | | | |
|------------------------|---------|------------------------------|-------|
| Bliev, N. K. | (13768) | Proceedings of the Confer- | |
| Fabes, E. B.; et al. | (13772) | ence of Portuguese and | |
| Kokilašvili, V. M. | (13775) | Spanish Mathematicians, | |
| Littman, W.; et al. | (13772) | First (Lisbon, 1972) | 6302 |
| Muradov, B.; et al. | (11201) | Proceedings of the Symposium | |
| Peral Alonso, Irene | 6302 | on Continuum Mechanics and | |
| Radjabov, E. L. | 6303 | Related Problems of Analy- | |
| Riviere, H. M.; et al. | (13772) | sis (Tbilisi, 1971), | |
| Salaev, V. V.; et al. | (11201) | Vol. I | 13775 |
| Sznitko, Wanda | 8758 | | |

A30 Multiple transforms

- | | | | |
|----------------------------|------|-------------------|------|
| Shrivastava, B. M.; et al. | 8759 | Singh, F.; et al. | 8759 |
|----------------------------|------|-------------------|------|

A35 Convolution

- | | | | |
|----------------------|------|---------------|------|
| Battig, A.; et al. | 1303 | Sharma, H. N. | 1304 |
| Kalla, S. L.; et al. | 1303 | | |

A40 Calculus of Mikusiński and other similar operational calculus

- | | | | |
|-----------------------------|---------|--------------------------|---------|
| Antosik, Piotr; et al. | (*1383) | Schulz, Rudi | 11032 |
| Berg, Lothar | (11142) | Sikorski, Roman; et al. | (*1383) |
| Bleyer, András | (1385) | Stanković, Bogoljub | 8762 |
| Dimovski, Ivan H. | 8760 | Tabata, Akihisa; et al. | 6304 |
| Jeyamma, S.; et al. | 8761 | Papers presented at the | |
| Konishi, Reiko; et al. | 6304 | Balkan Mathematical Con- | |
| Krabbe, Gregers | (3897) | gress, Fifth (Belgrade, | |
| Mikusiński, Jan; et al. | (*1383) | 1974) | 8760 |
| Nikolić-Despotović, Danica | 6305 | | |
| Ramakrishnan, P. V.; et al. | 8761 | | |

A45 Classical operational calculus

- | | |
|-------------|------|
| Jain, M. K. | 3812 |
|-------------|------|

A50 Moment problems [See also 42A80.]

- | | | | |
|---------------|--------|-------------------|--------|
| Jacut, V. A. | 6306 | Veech, William A. | (6293) |
| Šifrin, S. N. | (1463) | | |

45-XX INTEGRAL EQUATIONS

45A05 Linear integral equations

- | | | | |
|-----------------|------|----------------------------|--------|
| Lamahova, L. G. | 3813 | Nikolić-Despotović, Danica | (6305) |
|-----------------|------|----------------------------|--------|

45B05 Fredholm integral equations

- | | | | |
|----------------|-------|-------------------|------|
| Belvard, J. A. | 3814 | Lozovik, V. G. | 3815 |
| Chan, Paula P. | 11033 | Rutelli, Giovanni | 3816 |
| Davydov, E. G. | 13597 | Withers, C. S. | 6307 |

45C05 Eigenvalue problems (See also 34B25, 35Pxx, 47E05.)

- | | | | |
|-----------------------------|-------|------------------------------|------|
| Fichera, Gaetano; et al. | 8763 | Collection of articles dedi- | |
| Medzhitov, M. | 11034 | cated to Mauro Picone on | |
| Sneider, Maria Adelaide | 8763 | the occasion of his nine- | |
| Boundary value problems for | | tieth birthday | 8763 |
| differential equations, 3 | 11034 | | |

45D05 Volterra integral equations (See also 34A10.)

- Bussmann, B.; et al. 1305
 Christensen, G. S.; et al. 1305
 Gurdunian, G. (13771)
 Heins, Albert E. 6308
 Hönig, Chaim Samuel (13392)
 Hromov, A. P. 6309, (8868)
 Miller, R. K. 8764
 Orlov, K.; et al. 3817
 Romanov, V. G. 3818
 Šerba, A. Z. 3819
 Shea, Daniel F.; et al. (8728)
- Solomon, Sender 3820
 Staffans, Olof J. 6310
 Stojanović, M.; et al. 3817
 Wainger, Stephen; et al. (8728)
 Advances in differential and integral equations (Conf. Qualitative Theory of Non-linear Differential and Integral Equations, Univ. Wisconsin, Madison, Wis., 1968) 8764, (13771)

45Exx Singular integral equations

E05 *Integral equations with Cauchy type kernels (See also 30A88, 35J15, 44A15, 44A35.)*

- Antonevič, A. B.; et al. (3971)
 Sazonov, L. I.; et al. (6505)
 Sliškii, V. I. (3468)
 Sosunov, A. S. 6315
 Sosunov, A. S.; et al. 1308
 Svenson, Erik 3821
 Vasilevskii, M. L.; et al. (6506)
 Žakova, T. A. 13601
 Žakovski, W.; et al. 13598
 Zolotarevskii, V. A. 6316
 Collection: Wazewski, Tadeusz, Part IV 13598
 Differential and integral equations with singular coefficients 13600
 Proceedings of a Conference on Boundary Value Problems (Kazan, 1969) 6314, 6315
 Studies of certain equations of mathematical physics, No. 2 1306, 1307, 1308
 Theory of functions of a complex variable and boundary value problems, No. 1 6312
- Leksifski, W.; et al. 13598
 Lew, J. S.; et al. 13599
 Merlin, A. V. 6312
 Mayer, Sybille (13777)
 Mihailev, L. G. 13600
 Muhtarov, H. S. 6313
 Nečev, A. P.; et al. (6497)
 Pilidi, V. S.; et al. (6505)
 Rytkin, V. B.; et al. (3971)
 Samko, S. G. 6314
 Samko, S. G.; et al. (6500)
 Šapiro, M. V.; et al. (6501, 6506)

E90 *Integral equations of the convolution type (Abel, Pólya, Toeplitz and Wiener Hopf type) (See also 44A15, 44A35, 47B35.)*

- Arutjunjan, A. A.; et al. 13602
 Atkinson, Kendall E. 3822
 Čibrikova, L. I. 6317
 Eidel'man, S. D.; et al. 6318
 Engibarjan, N. B.; et al. 13602
 Fel'dman, I. A. (1491)
 Govoruhina, A. A.; et al. (6479)
 Hačkin, M. I. (3973)
 Hirschman, I. I., Jr. (13773)
 Juhazov, F. W. 3823
 Kovlenko, N. V. 13603
 Kryžanovskii, I. A.; et al. 6318
- Paradoksova, I. A.; et al. (6479)
 Plešnova, T. G.; et al. 6318
 Prüssdorf, Siegfried; et al. (8865)
 Silbermann, Bernd; et al. (8865)
 Skopin, V. S.; et al. 6318
 Vasilevskii, M. L. (3978)
 Proceedings of a Conference on Boundary Value Problems (Kazan, 1969) (6479)
 Theory of functions of a complex variable and boundary value problems, No. 1 6317

E99 *None of the above, but in this section*

- Argenbaeva, R. U.; et al. 6319
 Birjukova, F. G.; et al. 6319
- Kilbas, A. A. 13604
 Kim, E. I.; et al. 6319

45Fxx Systems of linear integral equations

F10 *Dual, triple, etc., integral and series equations*

- Chakrabarti, Alok Nath 1309, 1310
 Khadem, R. 3824
 Saxena, R. K.; et al. 6320
 Sethi, P. L.; et al. 6320
 Trivedi, T. N.; et al. 8765
- Kelman, Robert B.; et al. 6459
 Khadem, R. 3824
 Saxena, R. K.; et al. 6320
 Sethi, P. L.; et al. 6320
 Trivedi, T. N.; et al. 8765

45Gxx Nonlinear integral equations (See also 47Hxx.)

G05 *Singular nonlinear integral equations*

- Browder, Felix E. 8766
 Mařrov, I. V. 6321

G99 *Other nonlinear integral equations*

- Gogudze, D. F. (3984)
 Hardiman, S. T.; et al. (1965)
 Joshi, M. 6322
 Leitman, M. J.; et al. (3976)
- Mizel, V. J.; et al. (3976)
 Oğustörel, Mehmet Namik 3825
 Sharma, R. R. 8767
 Tsokos, Chris P.; et al. (1965)

45H05 Miscellaneous special kernels (See also 44A15.)

- Azamotova, V. I. 3826
 Babesko, V. A. 6323
 Gupta, H. L.; et al. 6324
 Komjak, I. I. 8768
 (Ross, Bertram.) (3369)
 Rusia, K. C.; et al. 6324
 Samar, M. S. 11035
 Fractional calculus and its applications (Proc. Internat. Conf., Univ. New Haven, West Haven, Conn., 1974) (3369)
- International Conference on Fractional Calculus and its applications Univ. New Haven, West Haven, Conn., 1974) (3369)
 Proceedings of the International Conference on Fractional Calculus and its Applications (Univ. New Haven, West Haven, Conn., 1974) (3369)

45J05 Integro-ordinary differential equations

- Ahmedov, K. T.; et al. 3827
 Bařinov, D. D.; et al. 3828
 3829, 3832, 6325
 6326, 6327, 6328, (10800)
 Burin, V. M. 3830
 Cushing, J. M. 13605
 Esinov, T. A.; et al. 11036
 Fargue, Daniel 6329
 Imanaliev, M. 13606
 Israelov, S. V.; et al. 3827
 Kasymov, K. A. 3831
 Kasymov, K. A.; et al. 11036
 Konstantinov, M. M.; et al. (10800)
 Krivošein, L. E.; et al. 13607
 13608, 13609, 13610
 13611, 13612
 Leung, K. V.; et al. 13612
 Mangeron, Demetrio; et al. 13607, 13608, 13609
 13610, 13611, 13612
 Miluševa, S. D.; et al. 3828
 3829, 3832, 6325
 6326, 6327, 6328
- Nikolova, T. St.; et al. (10800)
 Oğustörel, Mehmet Namik 13607, 13608, 13609
 13610, 13611, 13612
 Pachpatte, B. G. 3833, 11037
 Rossi, Francesco Saverio; et al. 13608
 Šarova, L. V. 3834
 Silas, G.; et al. 13609
 Ulařev, B. 1064
 Velikson, B. A. 6330
 Volnea, R. P.; et al. 13610, 13611
 Collection of articles dedicated to the memory of the Balkan mathematicians Constantin Carathéodory, Josip Plemelj, Dimitrie Pompeiu and Gheorghe Țițeica in connection with the first centenary of their birth (10800)

45K05 Integro-partial differential equations

- Čalidze, A. K. 6331, 6332
 Grabmüller, H. 3835
 Krivošein, L. E.; et al. 6333, 6334, 6335
 Mangeron, D.; et al. 6333, 6334, 6335
 Oğustörel, M. N.; et al. 6333, 6334, 6335
 Salandi, D.; et al. 6334
- Stroe, G.; et al. 6333
 Volnea, R. P.; et al. 6335
 Methoden und Verfahren der mathematischen Physik, Band 10 3835
 Studies of certain equations of mathematical physics, No. 1 6331, 6332

45Lxx Approximation of solutions

L05 *Theoretical approximation of solutions*

- Aliiev, Rafik M. (12004)
 Duskov, P. N.; et al. 11038
 Gerdulhaev, E. G.; et al. 11038
 Martinenko, Mihailo D.; et al. 1311
 Phillips, James L. 11039
 Ramm, A. G. 13613
- Šarova, L. V. 13614, 13615
 Šelepen', S. A. 11040
 Shaw, C. B., Jr. (9424)
 Šipka, I. G.; et al. 1311
 Functional analysis and its application (12004)

45Mxx Qualitative behavior

M05 *Tensor products*

- Bantas, Gh. 3836
 Greenberg, J. M.; et al. 1312
 Hoppensteadt, F.; et al. 1312
 Imanaliev, M. 3837
 Weis, Dennis G. 3838
- Collection for articles dedicated to the memory of the Balkan mathematicians Constantin Carathéodory, Josip Plemelj, Dimitrie Pompeiu and Gheorghe Țițeica in connection with the first centenary of their birth 3837

M10 *Stability theory*

- Freiria, A. A.; et al. (13406)
 Izš, A. P.; et al. (13406)
 Kartsatos, Athanasios G.; et al. 8769
- Miller, R. K. 8770
 Zigler, William R.; et al. 8769

M99 *None of the above, but in this section*

- Hannsgen, Kenneth B. 6336

45N05 Abstract integral equations, integral equations in abstract spaces

- Barbu, Viorel (13791)
 Herod, James V. (8907)
 MacCamy, Richard C. (13776)
- Maruc, Kenji (3986)
 Reneke, James A. 3839

46-XX FUNCTIONAL ANALYSIS (For manifolds modelled on topological linear spaces, see 57A20, 58Bxx.)

01 Elementary exposition (collegiate level)

- | | | | |
|---------------------------|------|-------------------------|-------------|
| Aljančić, S. | 1313 | Križanić, France | (7762) |
| (Dragnev, M. V.); | 3840 | Marinescu, G. | 6337 |
| Espstein, Bernard | 1314 | Packel, Edward W. | *11041 |
| Fomin, S. V.; et al. | | Rudin, Walter | *1315 |
| 3840, 13616, 13617 | | (Silverman, Richard A.) | *13617 |
| Kolmogorov, A. N.; et al. | | (Tihomirov, V. M.) | 3840c 13616 |
| 3840, 13616, 13617 | | | |

02 Advanced exposition (research surveys, etc.)

- | | | | |
|-----------------------|--------|-------------------------|--------|
| Hewitt, Edwin; et al. | (3363) | Stromberg, Karl; et al. | (3363) |
|-----------------------|--------|-------------------------|--------|

03 Historical

- | | | | |
|--------------------------|------|------------------------------------|------|
| (Antolín, Antonio) | 1316 | (Quintero, Ricardo) | 1316 |
| (Fernández, Begoña) | 1316 | (Rodríguez, Enriqueta) | 1316 |
| (Horvath, J.) | 1316 | (Rojano, Teresa) | 1316 |
| (López Yáñez, Alejandro) | 1316 | Development of functional analysis | 1316 |
| (Mejía, Hugo) | 1316 | | |
| (Montejano, Luis) | 1316 | | |

06 Collections of papers; proceedings of conferences

- | | | | |
|---|------------------------|---|----------------------------|
| (Straus, A. V.) | *1317 | Séminaire d'Analyse Convexe (Univ. Sci. Tech. Languedoc, Montpellier, 1971) | '3841, '3842, '3843, '3844 |
| Analyse convexe | 3841, 3842, 3843, 3844 | Travaux du Séminaire d'Analyse Convexe, Vol. I. | '3841, 3842, 3843, 3844 |
| Functional analysis | 1317, 8771 | | |
| Open House for Functional Analysts (Aarhus Univ., Aarhus, 1972) | 8771 | | |
| Papers from the "Open House for Functional Analysts" (Aarhus Univ., Aarhus, 1972) | 8771 | | |

46Axx Topological linear spaces

- | | | | |
|--------------------|-------|---|-------|
| (Banach, Stefan) | *8773 | Séminaire Banach (École Normale Supérieure, Paris, 1962-1963) | *8773 |
| Cristescu, Romulus | *3845 | | |
| Grothendieck, A. | *8772 | | |
| (Houzel, K.) | *8773 | | |

A05 Locally convex spaces

- | | | | |
|---------------------------|---------------------|--|------------------|
| Buchwalter, Henri | 13619 | Saab, Elias | 6340 |
| Cook, C. H.; et al. | 8774 | Stork, Werner | (6495) |
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C05 Free problems and problems involving ordinary differential equations

- Arnsen, Moritz 11244

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- Janin, Robert 1552

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- Dunn, J. C. 4005

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- Connor, M. A.; et al. 4006 Kratochvíl, Alexander; et al. 1553
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- Céa, J.; et al. 4007 Glowinski, R.; et al. 4007

D25 Finite difference methods

- Frehe, Jens 11246 Iterationsverfahren, Numerische Mathematik, Approximationstheorie 11246

D30 Other methods, not based on necessary conditions (penalty function, etc.)

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49Exx Controllability and geometry of control problems

E05 General dependence on controls

- Mullis, C. T. (9901)

E15 Attainable sets, controllability

- Artstein, Zvi 13830 Langenhop, C. E.; et al. 13831
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E20 Interrelations between stability problems and optimization problems

- Cannon, J. R.; et al. 6545 Klein, R. E.; et al. 6545
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E25 Effect of perturbations on controllability

- Lukes, D. L. 11257 Schwarzkopf, A. B. (13821)

E30 Relations between controllability and optimal solutions

- Brunovsky, Pavol; et al. 13834 Mirić, Štefan; et al. 13834
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E99 None of the above, but in this section

- Plíš, A. 11258 Automatic and remote control III (Proc. Third Congr. Internat. Federation Automatic Control, London, 1966) 13835
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49Fxx Manifolds

F05 Exterior differential forms, invariant integrals (Cartan theory) [See also 58A15.]

- Kijowski J. (6879)

F10 Minimal surfaces

- Böhme, Reinhold 13836 Seifert, Herbert (1626)
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F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 58A25.]

- Geoghegan, Ross (11500) Algebraic and geometrical methods in topology (Conf. Topological Methods in Algebraic Topology, State Univ. New York, Binghamton, N. Y., 1973) (11500)
 Hildebrandt, S. K.; et al. (9034) Value-distribution theory, Part A (13295)
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 Shiffman, Bernard (13295)

F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

- Gjaquinta, M. 13838 Hildebrandt, Stefan 1568
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F25 Surface area

- Gerhardt, Claus 1569 Metric questions of the theory of functions and mappings, No. 3 1570
 Syčev, A. V. 1570

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- Averna, Alfonso 13839 Commemoration volumes for Prof. Dr. Akitsugu Berry, Thomas G. (14151) Kawaguchi's seventieth birthday (14151)
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49Gxx Variational methods and eigenvalues**G05 Variational approach to eigenvalues**

Kusanek, Jerry F. 1572

G15 Weinstein and Aronszajn methods, intermediate problems

Weinstein, Alexander 11260 Analytic methods in mathematical physics (Sympos., Indiana Univ., 1968) 11260

G20 Linear operators in Hilbert spacesFichera, Gaetano (8873) Symposia Mathematica, Vol. X (8873)
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- Clapp, M. H.; et al. (13989)
 Dickman, R. F., Jr. 1783
 Dickman, R. F., Jr.; et al. (13989)
 Iliadis, S. D. (4186)
- Maćkowiak, T. 1784
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F65 Topological characterizations of particular spaces

- Brujning, J. 9036
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 Gruenhage, Gary; et al. 14005
 Schoenfeld, Alan H.; et al. 14005
 Szymanski, Andrzej (1830)
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- Vučelilović, A. 14007
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54Gxx Peculiar spaces

G05 Extremely disconnected spaces, F-spaces, etc.

- Gruenhage, Gary; et al. (14005)
 Rudin, Mary Ellen 6764
 Schoenfeld, Alan H.; et al. (14005)
- Proceedings of the University of Oklahoma Topology Conference (1972) 6764

G10 F-spaces

- Hung, H. H.; et al. (6690)
 Negreponis, S.; et al. (6690)

G15 Pathological spaces

- Fedorčuk, V. V. 6765

G20 Countersamples

- Burke, Dennis K. (11426)
 Topology Conference (Virginia Polytech. Inst. and State Univ., 1973) (11426)

G99 None of the above, but in this section

- Čoban, M. M. 11459
 Witt, Ernst 4192
- Topology and its applications (Proc. Conf., Memorial Univ. Newfoundland, St. John's, Nfld., 1973) 4192

54Hxx Connections with other structures, applications

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H05 *Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets)* [See also Q4A15, 26A21, 28A05.]

Abels, Herbert	11460	Rogers, C. A.	14008
Dellaacherie, C.	9037	Saint-Raymond, Jean	14009
Jayne, J. E.	(6714)	Séminaire de Probabilités,	
Mauldin, R. Daniel	(4153)	VII	9037

H10 *Topological representations of algebraic systems* [See also 22—XX.]

Jayne, J. E.	4193	General topology and its	
Šedivá-Trnková, Věra	(3343)	relations to modern analysis and algebra, III	4193

H15 *Transformation groups and semigroups* [See also 20Mxx, 22—XX, 57Exx.]

Cezus, F. A.; et al.	(8299)	Magill, K. D., Jr.; et al.	(8299)
Duval, P. F., Jr.; et al.	4194	Mislove, Michael; et al.	(10520)
Eschgrüller, Josef	1785	O'Reilly, Sean B.	6766
Hofmann, Karl Heinrich; et al.	(10520)	Strantzalos, Polychronis	1787
Husch, L. S.; et al.	4194	Subbiah, S.; et al.	(8299)
Junghenn, H. D.	11461	de Vries, J.	9038
King, Larry	1786	Zimmer, Robert J.	11462
Lam, Ping Fun	(14126)		

H20 *Topological dynamics* [See also 28A65, 34C35, 58Fxx.]

Baja, Prem N.	11463	Conference on Ergodic Theory and Topological Dynamics (Kibbutz Lavi, 1974)	(413196)
Bauer, Walter; et al.	6767	Conference on Topological Dynamics (Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund)	(46880)
(Beck, Anatole)	(46880)	Ergodic theory	(413196)
Block, Louis	4195	Mathematical models in economics (Proc. Sympos., Warsaw, 1972 and Conf. on von Neumann Models, Warsaw, 1972)	11463
Bronstein, I. U.; et al.	1788	Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974)	(13373)
Černý, V. F.; et al.	1788	Proceedings of the Auburn Topology Conference (Auburn Univ., Auburn, Ala., 1969; dedicated to F. Burton Jones on the occasion of his 60th birthday)	(6771)
Chen, Su Shing	9039	Proceedings of the Conference on Topological Dynamics (Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund)	(46880)
Baja, Časlav	11464, (13373)	Recent advances in topological dynamics (Proc. Conf. Topological Dynamics, Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund)	(46880)
Freiman, Richard (Hedlund, Gustav Arnold)	(46880)	Topological dynamics	(46880, 13196)
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Ludesch, H.	1790		
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Mel'cer, M. M.; et al.	(4320)		
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Newton, D.; et al.	(5892)		
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Rubstein, B. A.; et al.	(4320)		
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Sell, George R.; et al.	9040		
Sigmund, Karl	6767		
Evarc, P. S.; et al.	(4320)		
Thomas, E. S., Jr.	6771		
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Walters, Peter	(3400)		
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Wu, T. S.; et al.	1791		
Zimmer, Robert J.	(8376)		
Collection of articles in celebration of the sixtieth birthday of Ky Fan	11465		

H25 *Fixed-point and coincidence theorems* [See also 47H10, 55C20.]

Avramescu, C.	6772	Iseki, Kiyoshi	1794
Chakraborty, M. K.	9041	Ivanov, A. A.	11467
Charney, Michel	9042	Johnson, Gordon G.	4199
Chatterjee, Madan; et al.	1793	Kiang, Mo Tak	14013
Čiriš, I. J. B.	4197, 6773	Koshiba, Zen'ichirō	(8350)
Dierolf, Peter	(1461)	Kuga, Kiyoshi	11468
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Fisher, E.	14011	Massa, Silvio	6775
Fournier, G.	(14031-14033)	Mitov, D.	1795
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		Pittman, Franz	14014
		Ray, Baidyanath	6777
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Singh, Shaligram; et al.	14015	Collection of articles dedicated to Mauro Picone on the occasion of his ninetieth birthday	11469
Singh, Surendra Pratap	4203	Constructive theory of functions (Proc. Internat. Conf., Varna, 1970)	1795
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-02 Advanced exposition (research surveys, etc.)

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-03 Historical

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-04 Explicit machine computation and programs (not the theory of computation or programming)

Peitgen, Heinz-Otto 4208

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A05 *Fundamental group, presentations, free differential calculus* [See also 20E40.]

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Shalen, Peter B.	11476		
Fonctions de plusieurs variables complexes (Sém. François Norguet, 1970-1973)	(5603)	Singularités à Cargèse (1972)	(3517)

A10 Covering spaces, branched coverings

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Johnsonbaugh, R.	14016	Shapiro, Jack M.	3359
Neumann, W. D.; et al.	(11516)	Whittaker, James V.	1797
Pop, Fulga; et al.	14017		

A15 *Graphs and map coloring* [For other graph theory, see 05Cxx.]

Cooper, E. D. (2962)

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A25 *Knots and links* [For the high-dimensional case, see 57C45.]

Birman, Joan S.	11477	Perko, Kenneth A., Jr.	14021
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A30 Wild knots and surfaces, etc.

- Shilepsky, Arnold C. 4214
- Proceedings of the University of Oklahoma Topology Conference (1972) 4214

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- Calder, Allan 1801
- Keesling, James 4215
- Kuz'minov, V. I.; et al. 6781
- Michaelides, George J.; et al. 4216
- Morita, Kiiti (9053)
- Nowinski, Krzysztof (11411)
- Švedov, I. A.; et al. 6781

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B15 K-theory [For algebraic K-theory, see 18F25.]

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- Araki, Shōrō; et al. 1802
- Held, René P.; et al. 4217
- Ishikawa, Nobuhiro; et al. 14022
- Kučment, P. A.; et al. 4218
- Kudo, Yoshimitsu 14023
- Nguyen Van Doanh 14024
- Pankov, A. A.; et al. 4218
- Suter, Ulrich; et al. 4217
- Yasuo, Minato; et al. 14022
- Yosimura, Zen Ichi; et al. 1802

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- Johnson, David Copeland (4282)
- Johnson, David Copeland; et al. 14025
- Kamata, Masayoshi; et al. (9089)
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- Panov, N. V. 14026
- Rudjak, Ju. B. 6782
- Sanders, Jack Palmer *11480
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- Willson, Stephen J. 14028
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- Bousfield, A. K. 4220
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- Brown, Robert F.; et al. 11483
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- Connert, J. E. 1805
- Fournier, G. 14031-14033
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- Muhammadiev, E. 11484
- Wakacka, Minoru (1861)
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- Adams, J. F. 11485
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- Geoghegan, Ross; et al. (11526)
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- Hilton, P. 6792
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- Sawashita, Norichika 14035
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- Harper, John R. 1810
- Hilton, Peter 1811
- Kahn, Peter J. (14106)
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- Smith, V. P.; et al. 4230
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- Lin, James P. 4235
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D50 *Category and co-category, etc.*

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D99 *None of the above, but in this section*

Edwards, David A. 11491 Algebraic and geometrical
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E15 *Whitehead products and generalizations*

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 Waldhausen, Friedhelm 6803 John's, Nfld., 1973) (6789)
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55Fxx *Fiber spaces and bundles (See also 18F15.)*

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F20 *Spectral sequences and homology of fiber spaces*
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F35 *Classifying spaces of groups and H-spaces*

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F99 *None of the above, but in this section*

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G45 Postnikov systems, k-invariants

- Kraines, David 6812
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H20 Eilenberg-Moore spectral sequences

- Dwyer, William G. (10442)
 Husemoller, Dale; et al. 1823
 Ligeard, Hans; et al. 11511
 Madsen, Ib; et al. 11511
 Moore, John C.; et al. 1823
 Stasheff, James; et al. 1823

H25 Generalized cohomology

- Hilton, Peter *1824

55Jxx Applied homological algebra (See also 18Gxx.)**J05 Abstract complexes**

- Bousfield, A. K.; et al. *1825
 Kan, D. M.; et al. *1825

J10 Semisimplicial complexes

- Sanderson, B. J. (4259)

J25 Homology of a product, Kinneth formula

- Sigmon, Kermit 4250

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- (Beck, Anatole) (*6880)
 (Chillingworth, David) (*6004)
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 Differential equations (*6004)
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 Recent advances in topological dynamics (Proc. Conf. Topological Dynamics, Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund) (*6880)
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- Clugăreanu, Gheorge 14056
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 Fujii, Kensō (11417)
 Ho, Chung Wu (11529, 14077)
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A10 Topology of E_3 , 3-manifolds (See also 55Axx.)

- Armentrout, Steve 14058
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A15 Topology of E_n , n-manifolds ($3 < n < \infty$)

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- General topology and its relations to modern analysis and algebra, III 1831

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- Siebenmann, L. C. (6831)
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- Mogilski, J. 14070

A60 *Cellularity*

- Coram, D.; et al. 14071
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- Maffei, John S. 14073
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- Moran, Daniel A. 1834

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- Dydak, Jerzy (6696)
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- Stone, David A. (*9074)

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- Hodgson, J. P. E. (1857)

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- Banchoff, Thomas F. 6826
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- Tsagas, G. 11354
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- Dieffenbach, Robert M. 6827
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- Siebenmann, L. C.; et al. (9075, 11533)
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- Barnette, David (13867)
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- Suzuki, Shin'ichi 14083

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- Bourbaki, N. *14084
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- Scharlemann, M. G.; et al. (9075, 11533)
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60-XX PROBABILITY THEORY AND STOCHASTIC PROCESSES (For additional applications, see 10Kxx, 42A36, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX.)

-01 Elementary exposition (collegiate level)

- Chung, Kai Lai *14176
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- Henrici, Peter; et al. 1885
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- Hoffmann, Christian; et al. 1885
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- Seinfeld, John H.; et al. (7406)
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-02 Advanced exposition (research surveys, etc.)

- Beekman, John A. *1887
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- Lukacs, Eugene *11599
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-03 Historical

- (Kendall, M. G.) *1889
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 (Pearson, E. S.) *1889
 History of probability *1889
- History of statistics *1889
 Studies in the history of statistics and probability *1889

-04 Explicit machine computation and programs (not the theory of computation or programming)

- Tankó, J. 1890
- Progress in statistics (European Meeting of Statisticians, Budapest, 1972) 1890

-06 Collection of papers; proceedings of conferences

- (Birnbau, Z. W.) *1893
 (Ciesielski, Z.) *14179
 (Ephremides, Anthony) *9135
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- Proceedings of the Conference on Directions for Mathematical Statistics (Univ. Alberta, Edmonton, Alta., 1974) *4334
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 Statistical inference *11600
 Statistical inference and related topics (Proc. Summer Res. Inst. Statist. Inference for Stochastic Processes, Indiana Univ., Bloomington, Ind., 1974, Vol. 2; dedicated to Z. W. Birnbau) *1893
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60Axx Axioms, foundations

A05 General questions

- Chan, Yuenwok 1894
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- Tversky, Amos (2059)
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A10 Probabilistic measure theory

- Geffroy, Jean; et al. 1895
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- Pathak, P. K.; et al. 4335
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60Bxx Probability theory on algebraic and topological structures**B05 Probability measures on topological spaces**

- Dudley, R. M.; et al. 6901
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- Proceeding of the Symposium on Statistics and Related Topics (Carleton Univ., Ottawa, Ont., 1974) 11606
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B15 Probability measures on groups, Fourier transforms, factorization

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60C05 Combinatorial probability

- Banjević, Dragan 6908
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60D05 Geometric probability

- Ambarcumjan, R. V. 9143, 14191
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60Hxx Stochastic analysis

- (Curtain, Ruth F.) (*7679)
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- Kuo, Hui Hsiung 6982
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- Agresti, Alan 1985
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K10 Applications (reliability, demand theory, etc.)

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-04 Explicit machine computation and programs (not the theory of computation or programming)

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ABBREVIATIONS OF NAMES OF JOURNALS

This list gives the form of references used in MATHEMATICAL REVIEWS and the complete title; the place of publication and other pertinent information are given in parentheses when desirable for clarity. An asterisk indicates that the journal has not previously been listed.

- Abacus.* Abacus. The Journal of the Mathematical Association of Nigeria. (Ibadan)
- Abh. Akad. Wiss. Göttingen Math.-Phys. Kl.* Abhandlungen der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. (Göttingen)
- Abh. Braunschweig. Wiss. Gesellsch.* Abhandlungen der Braunschweigischen Wissenschaftlichen Gesellschaft. (Braunschweig)
- Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)
- Abh. Math. Sem. Univ. Hamburg.* Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg. (Hamburg)
- Abh. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig)
- Abstracts Bulgarian Sci. Lit. Math. Phys. Astronom. Geophys. Geodes.* Bulgarian Academy of Sciences. Centre of Scientific Information and Documentation. Abstracts of Bulgarian Scientific Literature. Mathematics, Physics, Astronomy, Geophysics, Geodesy. (Sofia)
- Acad. Roy. Belg. Bull. Cl. Sci.* Académie Royale de Belgique. Bulletin de la Classe des Sciences. Koninklijke Belgische Academie. Mededelingen van de Klasse der Wetenschappen. (Brussels)
- Acad. Roy. Belg. Cl. Sci. Mem. Coll. in-8°.* Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. Koninklijke Belgische Academie. Klasse der Wetenschappen. Verhandeligen. Verzameling in-8°. (Brussels)
- Acad. Serbe Sci. Arts Glas.* Académie Serbe des Sciences et des Arts. Glas. Classe des Sciences Mathématiques et Naturelles. Nouvelle Série. (Belgrade)
- Accad. Naz. Sci. Lett. Arti Modena Atti Mem.* Accademia Nazionale di Scienze Lettere et Arti. Modena. Atti e Memorie. (Modena)
- ACM Trans. Math. Software.* Association for Computing Machinery. Transactions on Mathematical Software. (New York)
- Acta Acad. Åbo. Ser. B.* Acta Academiae Åboensis. Ser. B. Mathematica et Physica. Matematik-Naturvetenskap-Teknik. (Åbo=Turku)
- Acta Acad. Paedagog. Civitate Pécs Ser. 6 Math. Phys. Chem. Tech.* Acta Academiae Paedagogicae in Civitate Pécs. Seria 6. Mathematica-Physica-Technica. (Pécs)
- Acta Acust. Sinica.* Acta Acustica Sinica. (Peking)
- Acta Arith.* Polska Akademia Nauk. Instytut Matematyczny. Acta Arithmetica. (Warsaw)
- Acta Astronaut.* Acta Astronautica. Journal of the International Academy of Astronautics. (Elmsford, N. Y.) (Formerly: *Astronaut. Acta*)
- Acta Astronom. Sinica.* Acta Astronomica Sinica. (Peking)
- Acta Ci. Compostelana.* Acta Científica Compostelana. (Santiago de Compostela)
- **Acta Ci. Indica.* Acta Ciencia Indica. (Meerut)
- Acta Ci. Venezolana.* Acta Científica Venezolana. Asociación Venezolana para el Avance de la Ciencia. (Caracas)
- Acta Cybernet.* Acta Cybernetica. (Szeged)
- Acta Fac. Rerum Natur. Univ. Comenian. Math.* Acta Facultatis Rerum Naturalium Universitatis Comenianae. Mathematica. (Bratislava)
- Acta Informat.* Acta Informatica. (Berlin)
- Acta Math.* Acta Mathematica. (Uppsala)
- Acta Math. Acad. Sci. Hungar.* Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Math. Sinica.* Acta Mathematica Sinica. (Peking) (Translated as: *Chinese Math.-Acta*)
- Acta Mech.* Acta Mechanica. (Vienna)
- Acta Mech. Sinica (New York).* Acta Mechanica Sinica. (New York) (Translation of *Acta Mech. Sinica (Peking)*)
- Acta Mech. Sinica (Peking).* Acta Mechanica Sinica. (Peking) (Translated as: *Acta Mech. Sinica (New York)*)
- Acta Mexicana Ci. Tecn.* Instituto Politécnico Nacional. Acta Mexicana de Ciencia y Tecnología. (Mexico City)
- Acta Philos. Fenn.* Acta Philosophica Fennica. (Helsinki)
- Acta Phys. Acad. Sci. Hungar.* Acta Physica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Phys. Austriaca.* Acta Physica Austriaca. (Vienna)
- Acta Phys. Polon. A.* Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. A. (Warsaw)
- Acta Phys. Polon. B.* Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. B. (Warsaw)
- Acta Phys. Sinica.* Acta Physica Sinica. (Peking)
- Acta Phys. Slovaca.* Acta Physica Slovaca. (Bratislava)
- Acta Polytech. Scand. Math. and Comput. Mach. Ser.* Acta Polytechnica Scandinavica. Mathematics and Computing Machinery Series. (Stockholm)
- Acta Sci. Math. (Szeged).* Acta Universitatis Szegediensis. Acta Scientiarum Mathematicarum. (Szeged)
- Acta Sci. Natur. Univ. Pekinensis.* Acta Scientiarum Naturalium Universitatis Pekinensis. (Peking)
- Acta Tech. Acad. Sci. Hungar.* Acta Technica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Tech. ČSAV.* Acta Technica. Československá Akademie Věd. (Prague)
- Acta Univ. Carolinae-Math. et Phys.* Acta Universitatis Carolinae. Mathematica et Physica. (Prague)
- Acta Univ. Oulu. Ser. A Sci. Rerum Natur. Math.* Acta Universitatis Ouluensis. Series A. Scientiae Rerum Naturalium. Mathematica. (Oulu)
- Acta Univ. Tamper. Ser. A.* Acta Universitatis Tampereensis. Series A. (Helsinki)
- Acta Univ. Wratislav.* Acta Universitatis Wratislaviensis. (Wrocław)
- Actualités Sci. Indust.* Actualités Scientifiques et Industrielles. (Paris)
- Acustica.* Acustica. International Journal of Acoustics. (Stuttgart)
- Advances in Appl. Probability.* Advances in Applied Probability. (Sheffield)
- Advances in Math.* Advances in Mathematics. (New York)
- Aequationes Math.* Aequationes Mathematicae. (Basel)
- AEÜ-Arch. Elektron. Übertragungstech.* AEÜ. Archiv für Elektronik und Übertragungstechnik. Electronics and Communication. (Stuttgart)
- AIAA J.* AIAA Journal. American Institute of Aeronautics and Astronautics. (Easton, Pa.)
- **AIChE J.* The American Institute of Chemical Engineers. Journal. (New York)
- AIIE Trans.* American Institute of Industrial Engineers. Transactions. (Atlanta, Ga.)

- Ajatus. Suomen Filosofisen Yhdistyksen Vuosikirja.* Yearbook of the Philosophical Society of Finland. (Helsinki)
- Akad. Nauk Armjan. SSR Dokl.* Akademiya Nauk Armjanskoi SSR. Doklady. (Erevan)
- Akad. Nauk Azerbaidžan. SSR Dokl.* Akademiya Nauk Azerbaidžanskoi SSR. Doklady. (Baku)
- Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze.* Akademiya Nauk Gruzinskoi SSR. Trudy Tbilisskogo Matematicheskogo Instituta im. A. M. Razmadze. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.*
- Akad. Nauk Kazah. SSR Trudy Astrofiz. Inst.* Akademiya Nauk Kazahskoi SSR. Trudy Astrofizicheskogo Instituta. (Alma-Ata)
- Akad. Nauk Kazah. SSR Trudy Inst. Mat. i Meh.* Akademiya Nauk Kazahskoi SSR. Trudy Instituta Matematiki i Mehaniki. (Alma-Ata)
- Akad. Nauk SSSR Trudy Jakutsk. Filial. Ser. Fiz.* Akademiya Nauk SSSR. Trudy Jakutskogo Filiala. Seriya Fizicheskaja. (Moscow)
- Akad. Nauk Uzbek. SSR Trudy Inst. Mat.* Akademiya Nauk Uzbekskoi SSR. Trudy Instituta Matematiki. (Tashkent)
- Akad. Nauka i Umjet. Bosne i Hercegov. Rad. Odjeli. Prirod. Mat. Nauka.* Akademiya Nauka i Umjetnosti Bosne i Hercegovine. Radovi. Odjeljenje Prirodnih i Matematičkih Nauka. (Sarajevo)
- Akad. Nauka i Umjet. Bosne i Hercegov. Rad. Odjeli. Tehn. Nauka.* Akademiya Nauka i Umjetnosti Bosne i Hercegovine. Radovi. Odjeljenje Tehničkih Nauka. (Sarajevo)
- Akad. Wiss. Lit. Mainz Abh. Math.-Natur. Kl.* Akademie der Wissenschaften und der Literatur in Mainz. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse. (Wiesbaden)
- Akust. Ž.* Akademiya Nauk SSSR. Akustičeskij Žurnal. (Moscow) (Translated as: *Soviet Physics Acoust.*)
- **Al. Culukidzis Sahelob. Khuthaisi. Sahelmc. Ped. Inst. Šrom.* Al. Culukidzis Sahelobis Khuthaisis Sahelmcipho Pedagogiuri Institutis Šromebi. (Kutaisi)
- Algebra and Logic.* Algebra and Logic. (New York) (Translation of *Algebra i Logika*)
- Algebra i Logika.* Akademiya Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Algebra i Logika. (Novosibirsk) (Translated as: *Algebra and Logic*)
- Algebra Universalis.* Algebra Universalis. (Basel)
- Algoritmy i Algoritm. Jazyki.* Vyčislitel'nyj Centr Akademii Nauk SSSR. Algoritmy i Algoritmicheskie Jazyki. (Moscow)
- Algoritmy.* Algoritmy. Prace Instytutu Maszyn Matematycznych Polskiej Akademii Nauk. (Warsaw)
- Aligarh Bull. Math.* The Aligarh Bulletin of Mathematics. (Aligarh)
- Allgemein. Statist. Arch.* Allgemeines Statistisches Archiv. Organ der Deutschen Statistischen Gesellschaft. (Munich)
- Alma-Atin. Gos. Ped. Inst. Učen. Zap.* Alma-Atinskij Gosudarstvennyj Pedagogičeskij Institut im. Abaja. Učenyje Zapiski. (Alma-Ata) (May also appear as: *Kazah. Gos. Ped. Inst. Učen. Zap.*)
- Alta Frequenza.* Alta Frequenza. Rivista di Elettronica e Telecomunicazioni della Associazione Elettrotecnica ed Elettronica Italiana. (Milan)
- Amer. J. Math.* American Journal of Mathematics. (Baltimore, Md.)
- Amer. J. Phys.* American Journal of Physics. (New York)
- Amer. Math. Monthly.* The American Mathematical Monthly. (Buffalo, N. Y.)
- Amer. Math. Soc. Transl.* American Mathematical Society Translations. (Providence, R. I.)
- Amer. Sci.* American Scientist. (New Haven, Conn.)
- Amer. Statist.* The American Statistician. (Washington, D. C.)
- AMR.* Applied Mechanics Reviews. (New York)
- An. Acad. Brasil. Ci.* Anais da Academia Brasileira de Ciências. (Rio de Janeiro)
- An. Fac. Ci. Univ. Porto.* Anais de Faculdade de Ciências. Universidade do Porto. (Porto, Portugal)
- An. Inst. Mat. Univ. Nac. Autónoma México.* Anales del Instituto de Matemáticas. Universidad Nacional Autónoma de México. (Mexico City)
- An. Ști. Univ. "Al. I. Cuza" Iași Sec. I a Mat.* Analele Științifice ale Universității "Al. I. Cuza" din Iași. Seria Nouă. Secțiunea I a Matematică. (Iași)
- An. Univ. București Fiz.* Analele Universității București. Fizică. (Bucharest) (Continued as: *An. Univ. București Ști. Natur.*)
- An. Univ. București Mat.-Mec.* Analele Universității București. Matematică-Mecanică. (Bucharest) (Continued as: *An. Univ. București Ști. Natur.*)
- An. Univ. București Ști. Natur.* Analele Universității București. Științele Naturii. (Bucharest) (Formerly: *An. Univ. București Mat.-Mec.* and *An. Univ. București Fiz.*)
- An. Univ. Craiova Ser. a IV-a.* Anale Universității Craiova. Seria a. IV-a. (Craiova)
- An. Univ. Timișoara Ser. Ști. Fiz.-Chim.* Analele Universității din Timișoara. Seria Științe Fizice-Chimice. (Timișoara)
- An. Univ. Timișoara Ser. Ști. Mat.* Analele Universității din Timișoara. Seria Științe Matematice. (Timișoara)
- Anal. Math.* Analysis Mathematica. (Budapest)
- Ann. Acad. Sci. Fenn. Ser. A I.* Suomalaisen Tiedeakatemian Toimituksia. Sarja A. Annales Academiæ Scientiarum Fennicæ. Series A. I. Mathematica. (Helsinki)
- Ann. Acad. Sci. Fenn. Ser. A I Math. Dissertationes.* Annales Academiæ Scientiarum Fennicæ. Series A I. Mathematica Dissertationes. (Helsinki)
- Ann. Acad. Sci. Fenn. Ser. A VI.* Suomalaisen Tiedeakatemian Toimituksia. Sarja A. Annales Academiæ Scientiarum Fennicæ. Series A. VI. Physica. (Helsinki)
- Ann. École Nat. Sup. Méc. Nantes.* Annales. École Nationale Supérieure de Mécanique. (Nantes)
- **Ann. Fac. Sci. Univ. Nat. Zaïre (Kishasa) Sect. Math. Phys.* Université Nationale du Zaïre. Faculté des Sciences. Annales. Section Mathématique-Physique. (Kinshasa)
- Ann. Human Genetics.* Annals of Human Genetics. (London)
- Ann. I.N.S.E.E.* Ministère de l'Économie et des Finances. Institut National de la Statistique et des Études Économiques. Annales de l'I.N.S.E.E. (Paris)
- Ann. Inst. Fourier (Grenoble).* Université de Grenoble. Annales de l'Institut Fourier. (Grenoble)
- Ann. Inst. H. Poincaré Sect. A.* Annales de l'Institut Henri Poincaré. Section A. Physique Théorique. (Paris)
- Ann. Inst. H. Poincaré Sect. B.* Annales de l'Institut Henri Poincaré. Section B. Calcul des Probabilités et Statistique. (Paris)
- Ann. Inst. Statist. Math.* Annals of the Institute of Statistical Mathematics. (Tokyo)
- Ann. Japan Assoc. Philos. Sci.* Annals of the Japan Association for Philosophy of Science. (Tokyo)
- Ann. Mat. Pura Appl.* Annali di Matematica Pura ed Applicata. (Bologna)
- Ann. Math. Logic.* Annals of Mathematical Logic. (Amsterdam)
- Ann. of Math.* Annals of Mathematics. (Princeton, N. J.)
- Ann. of Sci.* Annals of Science. (London)
- Ann. Physics.* Annals of Physics. (New York)
- Ann. Physik.* Annalen der Physik. (Leipzig)
- Ann. Polon. Math.* Polska Akademia Nauk. Annales Polonici Mathematici. (Warsaw)
- Ann. Probability.* The Annals of Probability. (San Francisco, Calif.)
- Ann. Sci. École Norm. Sup.* Annales Scientifiques de l'École Normale Supérieure. (Paris)
- Ann. Sci. Univ. Besançon Math.* Annales Scientifiques de l'Université de Besançon. Mathématiques. (Besançon)
- Ann. Sci. Univ. Besançon Méc. Phys. Théor.* Annales Scientifiques de l'Université de Besançon. Mécanique et Physique Théorique. (Besançon)
- Ann. Sci. Univ. Clermont. Math.* Annales Scientifiques de l'Université de Clermont. Série Mathématique. (Clermont-Ferrand)
- Ann. Scuola Norm. Sup. Pisa Cl. Sci.* Annali della Scuola Normale Superiore di Pisa. Classe di Scienze. (Pisa)
- Ann. Scuola Norm. Sup. Pisa Sci. Fis. Mat.* Annali Scuola Normale Superiore di Pisa. Scienze. Fisiche e Matematiche. (Pisa)
- Ann. Soc. Sci. Bruxelles Sér. I.* Annales de la Société Scientifique de Bruxelles. Série I. Sciences Mathématiques, Astronomiques et Physiques. (Brussels)
- Ann. Statist.* The Annals of Statistics. (San Francisco, Calif.)
- **Ann. Syst. Res.* Annals of Systems Research. (Leiden)
- Ann. Télécommun.* Annales des Télécommunications. (Paris)
- Ann. Univ. Ferrara Sez. VII.* Annali dell'Università di Ferrara. Nuovo Serie. Sezione VII. Scienze Matematiche. (Ferrara)
- Ann. Univ. Madagascar Sér. Sci. Nature Math.* Annales de l'Université de Madagascar. Série Sciences de la Nature et Mathématiques. (Tananarive)
- Ann. Univ. Mariae Curie-Skłodowska Sect. A.* Annales Universitatis Mariae Curie-Skłodowska. Sectio A. Mathematica. (Lublin)

- Ann. Univ. Sarav. Math.-Natur. Fak.* Annales Universitatis Saraviensis. Mathematisch-Naturwissenschaftliche Fakultät. (Berlin)
- Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae. Sectio Mathematica. (Budapest)
- Ann. Univ. Turku. Ser. A I.* Annales Universitatis Turkuensis. Series A. I. Astronomica-Chemica-Physica-Mathematica. (Turku)
- Annuaire Univ. Sofia Fac. Math.* Godišnik na Sofijskija Universitet. Matematički Fakultet. Annuaire de l'Université de Sofia. Faculté de Mathématiques. (Sofia)
- Annuaire Univ. Sofia Fac. Phys.* Godišnik na Sofijskija Universitet. Fizčki Fakultet. Annuaire de l'Université de Sofia. Faculté de Physique. (Sofia)
- Annual Rep. Fac. Ed. Univ. Iwate.* Annual Report of the Faculty of Education. University of Iwate. (Kakuzanwaki)
- **Anz. Österreich. Akad. Wiss. Math.-Naturwiss. Kl.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Anzeiger. (Vienna)
- Apl. Mat.* Československá Akademie Věd. Aplikace Matematiky. (Prague)
- Appl. Math. Comput.* Applied Mathematics and Computation. (New York)
- **Appl. Math. Notes.* Applied Mathematics Notes. (Montreal, Que.)
- **Appl. Math. Optim.* Applied Mathematics and Optimization. An International Journal. (New York)
- Appl. Mech. Rev.* Applied Mechanics Reviews. (New York) (Some times abbreviated as *AMR* in the text of *Math. Reviews*)
- Appl. Sci. Res.* Applied Scientific Research. (The Hague)
- Applicable Anal.* Applicable Analysis. An International Journal. (New York)
- Araştırma.* Araştırma. Journal of the Institute for Research in Philosophy, the History of Science, Psychology and Sociology. Faculty of Letters. Ankara University. (Ankara)
- Årbok Univ. Bergen Mat.-Natur. Ser.* Årbok for Universitetet i Bergen. Matematisk-Naturvidenskapelig Serie. (Bergen)
- Arch. Automat. i Telemek.* Polska Akademia Nauk. Komitet Automatyki i Cybernetyki Technicznej. Archiwum Automatyki i Telemekhaniki. (Warsaw)
- Arch. Elek. Übertr.* Archiv für Elektronik und Übertragungstechnik. Electronics and Communication. (Stuttgart) (Continued as: *AEÜ-Arch. Elektron. Übertragungstechn. Electron. Commun.*)
- Arch. Elektrotech.* (Warsaw). Komitet Elektrotechniki. Komitet Elektroniki i Telekomunikacji Polskiej Akademii Nauk. Archiwum Elektrotechniki. (Warsaw)
- Arch. History Exact Sci.* Archive for History of Exact Sciences. (Berlin)
- Arch. Internat. Histoire Sci.* Archives Internationales d'Histoire des Sciences. (Paris)
- Arch. Math. (Basel).* Archiv der Mathematik. Archives of Mathematics. Archives Mathématiques. (Basel)
- Arch. Math. (Brno).* Spisy Přírodovědecké Fakulty University J. E. Purkyně v Brně. Archivum Mathematicum. (Brno)
- Arch. Math. Logik Grundlagenforsch.* Archiv für Mathematische Logik und Grundlagenforschung. (Stuttgart)
- Arch. Mech. (Arch. Mech. Stos.)* Institute of Fundamental Technical Research. Polish Academy of Sciences. Archives of Mechanics (Archiwum Mechaniki Stosowanej). (Warsaw)
- Arch. Rational Mech. Anal.* Archive for Rational Mechanics and Analysis. (Berlin)
- Archimede.* Archimede. Rivista per gli Insegnanti e i Cultori di Matematiche Pure e Applicate. (Florence)
- Ark. Mat.* Arkiv för Matematik. (Stockholm) (Continued in: *Astronom. and Astrophys.*)
- Arkhimedes.* Arkhimedes. Suomen Fysikkoseura-Finlands Fysikerforening r.y. Suomen Matemaattinen Yhdistys-Finlands Matematiska Förening r.y. (Helsinki)
- Armjan. Gos. Ped. Inst. Sb. Naučn. Trud. Ser. Fiz.-Mat.* Armjanskij Gosudarstvennyj Pedagogičeskij Institut im. H. Abovjana. Sbornik Naučnyh Trudov. Serija Fiziko-Matematičeskaja. (Erevan)
- Arquivo Inst. Gulbenkian Cl. A Estud. Mat. Fis.-Mat.* Arquivo do Instituto Gulbenkian de Ciência. A. Estudos Matemáticos e Físico-Matemáticos. (Lisbon)
- Artificial Intelligence.* Artificial Intelligence. An International Journal. (Amsterdam)
- Assoc. Roy. Actuar. Belges Bull.* Association Royale des Actuaire Belges. Bulletin. (Brussels)
- Astin Bull.* The Astin Bulletin. Publication of the Astin Section of the Permanent Committee for International Actuarial Congresses. (Amsterdam)
- Astrofizika.* Akademija Nauk Armjanskij SSR. Astrofizika. (Erevan) (Translated as: *Astrophysics*)
- Astronaut. Acta.* Astronautica Acta. (Vienna) (Continued as: *Acta Astronaut.*)
- Astronom. and Astrophys.* Astronomy and Astrophysics. (Berlin)
- Astronom. Astrophys. Suppl. Ser.* Astronomy & Astrophysics. Supplement Series. (Lausanne)
- Astronom. J.* The Astronomical Journal. (New Haven, Conn.)
- Astronom. Nachr.* Astronomische Nachrichten. (Berlin)
- Astronom. Ž.* Akademija Nauk SSSR. Astronomičeskij Žurnal. (Moscow) (Translated as: *Soviet Astronom. AJ*)
- Astrophys. and Space Sci.* Astrophysics and Space Science. (Dordrecht)
- Astrophys. J.* The Astrophysical Journal. (Chicago, Ill.)
- Astrophysics.* Astrophysics. A translation of *Astrofizika* of the Academy of Sciences of the Armenian SSR. (New York) (Translation of *Astrofizika*)
- ATR-Austral. Telecommun. Res.* ATR. Australian Telecommunication Research. (Melbourne)
- Atti Accad. Gioenia Sci. Natur. Catania.* Atti della Accademia Gioenia di Scienze Naturali in Catania. (Catania)
- Atti Accad. Ligure Sci. Lett.* Atti della Accademia Ligure di Scienze e Lettere. (Genoa)
- Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. 2.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione 2. Matematica, Meccanica, Astronomia, Geodesia e Geofisica. (Rome)
- Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. (Rome)
- Atti Accad. Sci. Fis. Mat. Napoli.* Atti dell'Accademia delle Scienze Fisiche e Matematiche di Napoli. (Naples)
- Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Rendiconti. (Bologna)
- Atti Accad. Sci. Lett. Arti Palermo Parte I.* Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima. Scienze. (Palermo)
- Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)
- Atti Fond. Giorgio Ronchi Contrib. Ist. Naz. Ottica.* Atti della Fondazione Giorgio Ronchi e Contributi dell'Istituto Nazionale di Ottica. (Florence)
- Atti Sem. Mat. Fis. Univ. Modena.* Atti del Seminario Matematico e Fisico dell'Università di Modena. (Modena)
- Atti Soc. Peloritana Sci. Fis. Mat. Natur.* Atti della Società Peloritana di Scienze Fisiche Matematiche e Naturali. (Messina)
- Austral. Comput. J.* The Australian Computer Society. The Australian Computer Journal. (Chippendale)
- Austral. J. Phys.* Australian Journal of Physics. (Melbourne)
- Austral. J. Statist.* The Australian Journal of Statistics. (Sydney)
- Automat. Control and Computer Sci.* Automatic Control and Computer Sciences. (New York) (Translation of *Automat. i Vychisl. Tehn. (Riga)*)
- Automat. Document. and Math. Linguistics.* Automatic Documentation and Mathematical Linguistics. (New York) (Translation of *Naučn.-Tehn. Informacija (VINITI) Ser. 2. Informacionnyye Protsessy i Sistemy*)
- Automat. Remote Control.* Automation and Remote Control. A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR. (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)
- Automatic Control Theory Appl.* Automatic Control Theory and Applications. (Calgary)
- Automatica-J. IFAC.* Automatica. The Journal of IFAC. The International Federation of Automatic Control. (Oxford)
- Avtomat. i Izčisl. Tehn.* Avtomatika i Izčislitelna Tehnika. (Sofia)
- Avtomat. i Telemekh.* Akademija Nauk SSSR. Avtomatika i Telemekhanika. (Moscow) (Translated as: *Automat. Remote Control*)
- Avtomat. i Vychisl. Tehn. (Riga).* Akademija Nauk Latvīskij SSR. Avtomatika i Vychislitel'naja Tehnika. (Riga) (Translated as: *Automat. Control and Computer Sci.*)

- Avtomatika*. Akademija Nauk Ukrain's'koi RSR. Institut Elektrotehniki. Avtomatika. (Kiev) (Translated as: *Soviet Automat. Control*)
- Avtometrija*. Avtometrija. Akademija Nauk SSSR. Sibirskoe Otdelenie. (Novosibirsk)
- Azerbaidžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk.* Azerbaidžanski Gosudarstvennyj Universitet im. S. M. Kirova. Učenyje Zapiski. Serija Fiziko-Matematičeskij Nauk. (Baku)
- Balašov. Gos. Ped. Inst. Učen. Zap.* Balašovskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Balašov)
- Bangabasi College Mag.* Bangabasi College Magazine. (Calcutta)
- Bangabasi Morning College Mag.* Bangabasi Morning College Magazine. (Calcutta)
- Barnaul. Gos. Ped. Inst. Učen. Zap.* Barnaul'skij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Barnaul)
- Baskir. Gos. Univ. Učen. Zap.* Baškirskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Ufa)
- Bayer. Akad. Wiss. Math.-Natur. Kl. Abh.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abhandlungen. (Munich)
- Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. (Munich)
- Beijing Daxue Xuebao Ziran Kexue.* See *Acta Sci. Natur. Univ. Pekinensis*.
- Beiträge Anal.* Beiträge zur Analysis. (Berlin)
- Beiträge Numer. Math.* Beiträge zur Numerischen Mathematik. (Berlin)
- Bell J. Econom.* The Bell Journal of Economics. (New York) (Formerly: *Bell J. Econom. and Management Sci.*)
- Bell J. Econom. and Management Sci.* The Bell Journal of Economics and Management Science. (New York) (Continued as: *Bell J. Econom.*)
- Bell System Tech. J.* The Bell System Technical Journal. (New York)
- Biol. Cybernet.* Biological Cybernetics. (Berlin)
- Biometrics.* Biometrics. Journal of the Biometric Society. (Raleigh, N. C.)
- Biometrika.* Biometrika. (London)
- Biometrische Z.* Biometrische Zeitschrift. (Berlin)
- Biał. Lubel. Towarz. Nauk. Mat. Fiz. Chem.* Biuletyn Lubelskiego Towarzystwa Naukowego. Matematyka. Fizyka. Chemia. (Lublin) (Formerly: *Biał. Lubel. Towarz. Nauk. Wydział II Mat. Fiz. Chem.*)
- Biał. Lubel. Towarz. Nauk. Wydział II Mat. Fiz. Chem.* Biuletyn Lubelskiego Towarzystwa Naukowego. Wydział II. Matematyka. Fizyka. Chemia. (Lublin) (Continued as: *Biał. Lubel. Towarz. Nauk. Mat. Fiz. Chem.*)
- Biał. Wojsk. Akad. Tech.* Biuletyn Wojskowej Akademii Technicznej im. Jarosława Dąbrowskiego. (Warsaw)
- Bjull. Inst. Teoret. Astronom.* Akademija Nauk Sojuza Sovetskijh Socialističeskijh Respublik. Bjulleten' Instituta Teoričeskoi Astronomii. (Moscow)
- Bl. Dtsch. Ges. Versicherungsmath.* Blätter der Deutschen Gesellschaft für Versicherungsmathematik (Deutscher Aktuarverein) E. V. (Würzburg)
- B'lgar. Akad. Nauk. Izv. Fiz. Inst. s. Aneb.* B'lgarska Akademija na Naukite. Izvestija na Fizičeskija Institut s. Aneb. (Sofia) (Continued as: *Bulgar. J. Phys.*)
- B'lgar. Akad. Nauk. Izv. Inst. Tehn. Kibernet.* B'lgarska Akademija na Naukite. Izvestija na Instituta po Tehnička Kibernetika. (Sofia)
- B'lgar. Akad. Nauk. Izv. Mat. Inst.* B'lgarska Akademija na Naukite. Izvestija na Matematičeskija Institut. (Sofia) (Continued as: *Serdica*)
- Bol. Fac. Ingen. Agrimens. Univ. Repúb. Oriental Uruguay.* Boletín de la Facultad de Ingeniería y Agrimensura de la Universidad de la República Oriental del Uruguay. (Montevideo)
- Bol. Mat.* Boletín de Matemáticas. (Bogotá)
- Bol. Mat. Estatist. Fis.* Boletim de Matemática, Estatística e Física. (São Paulo)
- Bol. Soc. Brasil. Mat.* Boletim da Sociedade Brasileira de Matemática. (Rio de Janeiro)
- Bol. Soc. Mat. Mexicana.* Boletín de la Sociedad Matemática Mexicana. (Mexico City)
- Bol. Univ. Paraná Inst. Fis.* Boletim da Universidade do Paraná. Conselho de Pesquisas. Instituto de Física. (Paraná)
- Boll. Un. Mat. Ital.* Bollettino della Unione Matematica Italiana. (Bologna)
- Bonn. Math. Schr.* Bonner Mathematische Schriften. (Bonn)
- British J. Hist. Sci.* British Society for the History of Science. British Journal for the History of Science. (London)
- British J. Math. Statist. Psychology.* The British Journal of Mathematical and Statistical Psychology. (London)
- British J. Philos. Sci.* The British Journal for the Philosophy of Science. (London)
- Bul. Akad. Štiințe RSS Moldoven.* Buletinul Academiei de Științe a RSS Moldovenest'. (Kishinev) Also listed as: *Izv. Akad. Nauk Moldav. SSR.*
- Bul. Inst. Politehn. București.* Buletinul Institutului Politehnic București. (Bucharest)
- Bul. Inst. Politehn. Iași.* Buletinul Institutului Politehnic din Iași. Serie Nouă. (Iași)
- Bul. Ști. Inst. Politehn. Cluj Ser. Electromec.* Buletinul Științific al Institutului Politehnic Cluj. Serie Electromecanică. (Cluj)
- Bul. Ști. Inst. Politehn. Cluj Ser. Mec.* Buletinul Științific al Institutului Politehnic Cluj. Serie Mecanică. (Cluj)
- Bul. Ști. Tehn. Inst. Politehn. Timișoara Ser. Mat. Fiz. Mec. Teoret. Apl.* Buletinul Științific și Tehnic al Institutului Politehnic Timișoara. Serie Matematica-Fizica-Mecanica Teoretică și Aplicată. (Timișoara)
- Bul. Univ. Brașov Ser. A Mec. Apl.* Buletinul Universității din Brașov. Serie A. Mecanică Aplicată Construcții de Mașini. (Brașov)
- Bul. Univ. Brașov Ser. C. Mat. Fiz. Chim. Ști. Natur.* Buletinul Universității din Brașov. Serie C. Matematică, Fizică, Chimie, Științe Naturale. (Brașov)
- Bul. Univ. Shtetëror Tiranë Shk. Nat.* Buletin Universiteti Shtetëror i Tiranës Fakulteti i Shkencave te Natyrës. (Tiranë)
- Bulgar. J. Phys.* Bulgarian Journal of Physics. (Sofia) (Formerly: *B'lgar. Akad. Nauk. Izv. Fiz. Inst. s. Aneb*)
- Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Mathématiques, Astronomiques et Physiques. (Warsaw)
- Bull. Acad. Polon. Sci. Sér. Sci. Tech.* Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Techniques. (Warsaw)
- Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* Bulletin de l'Académie Serbe des Sciences et des Arts. Classe des Sciences Mathématiques et Naturelles. Sciences Mathématiques. (Belgrade)
- Bull. Amer. Math. Soc.* Bulletin of the American Mathematical Society. (Providence, R. I.)
- *Bull. Arts Sci. Div. Univ. Ryukyus Math. Natur. Sci.* University of the Ryukyus. Arts & Science Division. Mathematics & Natural Sciences. Bulletin. (Naha) (Continued as: *Bull. Sci. Engng. Div. Univ. Ryukyus Math. Natur. Sci.*)
- Bull. Austral. Math. Soc.* Bulletin of the Australian Mathematical Society. (St. Lucia)
- Bull. Calcutta Math. Soc.* Bulletin of the Calcutta Mathematical Society. (Calcutta)
- Bull. Central Res. Lab. O.I.T.* Bulletin of the Central Research Laboratory. Osaka Institute of Technology. (Osaka)
- Bull. College Sci. (Baghdad).* Bulletin of the College of Science. (Baghdad)
- Bull. Dept. Gen. Ed. College Sci. Tech. Nihon Univ.* Bulletin of Department of General Education. College of Science and Technology. Nihon University. (Narashino)
- Bull. Direction Études Recherches Sér. C Math. Informat.* Électricité de France. Bulletin de la Direction des Études et Recherches. Série C. Mathématiques. Informatique. (Grenoble)
- Bull. Fac. Ed. Univ. Kagoshima.* Bulletin of the Faculty of Education. University of Kagoshima. (Kagoshima)
- Bull. Fac. Ed. Utsunomiya Univ.* Bulletin of the Faculty of Education. Utsunomiya University. (Utsunomiya) (Continued as: *Bull. Fac. Ed. Utsunomiya Univ. Sect. 2*)
- *Bull. Fac. Ed. Utsunomiya Univ. Sect. 2.* Utsunomiya University. Faculty of Education. Section 2. Bulletin. (Utsunomiya) (Formerly: *Bull. Fac. Ed. Utsunomiya Univ.*)
- Bull. Fac. Engng. Hiroshima Univ.* Bulletin of the Faculty of Engineering. Hiroshima University. (Hiroshima)
- Bull. Fac. Engng. Miyazaki Univ.* Bulletin of the Faculty of Engineering. Miyazaki University. (Miyazaki)
- Bull. Fac. Sci. Ibaraki Univ. Ser. A.* Bulletin of the Faculty of Science. Ibaraki University. Series A. Mathematics. (Ibaraki)
- Bull. Fukuoka Univ. Ed. III.* Bulletin of Fukuoka University of Education. Part III. Natural Sciences. (Fukuoka)
- Bull. Géodésique.* Bulletin Géodésique. (Paris)
- Bull. Gifu College Ed.* Bulletin of Gifu College of Education. (Gifu)
- Bull. Inst. Internat. Statist.* Bulletin de l'Institut International de Statistique. (The Hague)

- Bull. Inst. Math. Acad. Sinica.* Bulletin of the Institute of Mathematics. Academia Sinica. (Taipei)
- Bull. Inst. Math. Appl.* Bulletin of the Institute of Mathematics and its Applications. (Southend-on-sea)
- Bull. JSME.* Bulletin of the Japan Society of Mechanical Engineers. (Tokyo)
- Bull. Kyoto Univ. Ed. Ser. B.* Bulletin of the Kyoto University of Education. Series B. Mathematics and Natural Science. (Kyoto)
- Bull. Kyushu Inst. Tech. Math. Natur. Sci.* Bulletin of the Kyushu Institute of Technology. Mathematics, Natural Science. (Tobata)
- Bull. London Math. Soc.* The Bulletin of the London Mathematical Society. (London)
- Bull. Math. Biology.* Bulletin of Mathematical Biology. (New York)
- Bull. Math. Soc. Sci. Math. R. S. Roumanie.* Bulletin Mathématique de la Société des Sciences Mathématiques de la République Socialiste de Roumanie. (Bucharest)
- Bull. Math. Statist.* Bulletin of Mathematical Statistics. (Fukuoka)
- Bull. Nagoya Inst. Tech.* Bulletin of Nagoya Institute of Technology. (Nagoya)
- Bull. Nara Univ. Ed. Natur. Sci.* Bulletin of Nara University of Education. Natural Science. (Nara)
- Bull. Sci. Conseil Acad. RSF Yugoslav. Sect. A.* Bulletin Scientifique. Conseil des Académies de la RSF de Yougoslavie. Section A. (Zagreb)
- **Bull. Sci. Engrg. Div. Univ. Ryukyus Math. Natur. Sci.* University of the Ryukyus. Science & Engineering Division. Mathematics & Natural Sciences. Bulletin. (Naha) (Formerly: *Bull. Arts. Sci. Div. Univ. Ryukyus Math. Natur. Sci.*)
- Bull. Sci. Engrg. Res. Lab. Waseda Univ.* Bulletin of Science and Engineering Research Laboratory. Waseda University. (Tokyo)
- Bull. Sci. Math.* Bulletin des Sciences Mathématiques. (Paris)
- **Bull. Shimane Univ. Natur. Sci.* Shimane University. Natural Sciences. Bulletin. (Matsue) (Continued as: *Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci.*)
- Bull. Signal. 110.* Centre National de la Recherche Scientifique. Bulletin Signalétique 110. Informatique. Automatique. Recherche Opérationnelle. Gestion. (Paris)
- Bull. Singapore Math. Soc.* Bulletin of the Singapore Mathematical Society. (Singapore)
- Bull. Soc. Math. Belg.* Bulletin de la Société Mathématique de Belgique. (Brussels)
- Bull. Soc. Math. France.* Bulletin de la Société Mathématique de France. (Paris)
- Bull. Soc. Math. Grèce.* Bulletin de la Société Mathématique de Grèce. (Athens)
- Bull. Soc. Math. Phys. Macédoine.* Bulletin de la Société des Mathématiciens et des Physiciens de la République Populaire de Macédoine. Bilten na Društvo na Matematikarite i Fizikarite od Socialistička Republika Makedonija. (Skopje)
- Bull. Soc. Roy. Sci. Liège.* Bulletin de la Société Royale des Sciences de Liège. (Liège)
- Bull. Soc. Sci. Lettres Lódz.* Bulletin de la Société des Sciences et des Lettres de Lódz. (Lódz)
- Bull. Tokyo Gakugei Univ.* Bulletin of Tokyo Gakugei University. (Tokyo)
- Bull. Univ. Osaka Prefecture Ser. A.* Bulletin of University of Osaka Prefecture. Series A. Engineering and Natural Sciences. (Osaka)
- Bull. Yamagata Univ. Natur. Sci.* Bulletin of the Yamagata University. Natural Science. (Yamagata)
- C. R. Acad. Bulgare Sci.* Doklady Bolgarskoj Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia)
- C. R. Acad. Sci. Paris Sér. A-B.* Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Séries A et B. (Paris)
- C. R. Acad. Sci. Paris Sér. B.* Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Séries B. (Paris)
- C. R. Acad. Sci. Paris Vie Académique.* Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Vie Académique. (Paris)
- Cahiers Centre Études Recherche Opér.* Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels)
- Cahiers Topologie Géom. Différentielle.* Cahiers de Topologie et Géométrie Différentielle. (Paris)
- Calcolo.* Calcolo. (Rome)
- Calcutta Statist. Assoc. Bull.* Calcutta Statistical Association Bulletin. (Calcutta)
- Canad. J. Math.* Canadian Journal of Mathematics. Journal Canadien de Mathématiques. (Toronto, Ont.)
- Canad. J. Phys.* Canadian Journal of Physics. (Ottawa, Ont.)
- **Canad. J. Statist.* The Canadian Journal of Statistics. (Montreal, Que.)
- Canad. Math. Bull.* Canadian Mathematical Bulletin. (Toronto, Ont.)
- Caribbean J. Sci. Math.* The Caribbean Journal of Science and Mathematics. (St. Thomas)
- Časopis Pěst. Mat.* Československá Akademie Věd. Časopis Pro Pěstování Matematiky. (Prague)
- Čečeno-Inguš. Gos. Ped. Inst. Učen. Zap.* Čečeno-Ingušskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Groznyj)
- Celestial Mech.* Celestial Mechanics. (Dordrecht)
- Čeljabinsk. Gos. Ped. Inst. Trudy.* Čeljabinskij Gosudarstvennyj Pedagogičeskij Institut. Trudy. (Chelyabinsk)
- Centaurus.* Centaurus. (Copenhagen)
- **Chem. Engrg. J.* The Chemical Engineering Journal. An International Journal of Research and Development. (Lausanne)
- Chem. Phys. Lett.* Chemical Physics Letters. (Amsterdam)
- Chinese J. Math.* Chinese Journal of Mathematics. (Hsinchu)
- Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn Tong-p'o.* (Academy of Science of the People's Republic of Korea. Bulletin). Cho-sŏn Min-ju-ju-ŭi In-min Kong-hwa-kuk Kwa-hak-wŏn. Tong-p'o. (Pyongyang)
- Ciencias Ser. I Mat.* Ciencias. Serie I. Matemática. (Havana)
- Čisl. Metody Meh. Splošnoj Sredy.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Vychislitel'nyj Centr. Čislennye Metody Mehaniki Splošnoj Sredy. (Novosibirsk)
- Čitin. Gos. Ped. Inst. Učen. Zap.* Čitinskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Chita)
- **CL & CL-Comput. Linguist. Comput. Lang.* Computational Linguistics and Computer Languages. (Budapest) (Formerly: *Comput. Linguist.*)
- Collect. Math.* Consejo Superior de Investigaciones Científicas. Universidad de Barcelona. Collectanea Mathematica. Seminario Matemático de Barcelona. (Barcelona)
- Collect. Papers Math. Soc. Wakayama Univ.* Collected Papers of the Mathematical Society of Wakayama University. (Wakayama)
- **Collect. Phenom.* Collective Phenomena. An International Journal of Discussion and Speculation. (London)
- Colloq. Math.* Colloquium Mathematicum. (Warsaw)
- Comm. ACM.* Communications of the Association for Computing Machinery. (New York)
- Comm. Algebra.* Communications in Algebra. (New York)
- Comm. Dublin Inst. Adv. Studies Ser. A.* Communications of the Dublin Institute for Advanced Studies. Series A. (Dublin)
- Comm. Fac. Sci. Univ. Ankara Sér. A.* Communications de la Faculté des Sciences de l'Université d'Ankara. Série A. Mathématiques-Physique-Astronomie. (Ankara)
- Comm. Math. Phys.* Communications in Mathematical Physics. (Berlin)
- Comm. Pure Appl. Math.* Communications on Pure and Applied Mathematics. (New York)
- Comm. Statist.* Communications in Statistics. (New York) (Continued as: *Comm. Statist.-Simulation Comput.* and *Comm. Statist.-Theory Methods*)
- **Comm. Statist.-Simulation Comput.* Communications in Statistics. Simulation and Computation. (New York) (Formerly: *Comm. Statist.*)
- **Comm. Statist.-Theory Methods.* Communications in Statistics. Theory and Methods. (New York) (Formerly: *Comm. Statist.*)
- Comment. Math. Helv.* Commentarii Mathematici Helvetici. (Zurich)
- Comment. Math. Prace Mat.* Roczniki Polskiego Towarzystwa Matematycznego. Seria I. Commentationes Mathematicae. Prace Matematyczne. (Warsaw)
- Comment. Math. Univ. Carolinae.* Commentationes Mathematicae Universitatis Carolinae. (Prague)
- Comment. Math. Univ. St. Paul.* Commentarii Mathematici Universitatis Sancti Pauli. (Tokyo)
- Compositio Math.* Compositio Mathematica. (Groningen)
- Comput. and Control Abstracts.* Computer and Control Abstracts. (New York)
- Comput. Geosci.* Computers & Geosciences. An International Journal. (Oxford)
- Comput. Graphics.* Computers & Graphics. An International Journal of Applications in Computer Graphics. (Oxford)
- Comput. Graphics and Image Processing.* Computer Graphics and Image Processing. An International Journal. (New York)
- Comput. J.* The Computer Journal. (London)

- Comput. Lang.* Computer Languages. An International Journal. (Oxford)
- **Comput. Linguist.* Computational Linguistics. (Budapest) (Continued as: CL & CL-*Comput. Linguist. Comput. Lang.*)
- Comput. Math. Appl.* Computers & Mathematics with Applications. An International Journal. (Oxford)
- Comput. Methods Appl. Mech. Engrg.* Computer Methods in Applied Mechanics and Engineering. (Amsterdam)
- Comput. Surveys.* Computing Surveys. ACM. Association for Computing Machinery. (New York)
- Computers & Structures.* Computers & Structures. (New York)
- **Computing.* Computing. Archiv für Informatik und Numerik. (New York) (Formerly: *Computing (Arch. Elektron. Rechnen)*)
- Computing (Arch. Elektron. Rechnen).* Computing. Archiv für Elektronisches Rechnen. Archives for Electronic Computing. (Vienna) (Continued as: *Computing*)
- COMSAT Tech. Rev.* COMSAT Technical Review. Communications Satellite Corporation. (Washington, D.C.)
- Conceptus.* Conceptus. Zeitschrift für Philosophie. (Innsbruck)
- Confer. Sem. Mat. Univ. Bari.* Conferenze del Seminario di Matematica dell'Università di Bari. (Bari)
- **Control Cybernet.* Polish Academy of Sciences. Institute of Applied Cybernetics. Control and Cybernetics. (Warsaw)
- Cosmic Res.* Cosmic Research. (New York) (Translation of *Kosmiches. Issled.*)
- CR.* Computing Reviews. (New York)
- Current Math. Publ.* Current Mathematical Publications. (Providence, R. I.)
- Čuv. Gos. Ped. Inst. Učen. Zap.* Čuvašskij Gosudarstvennyj Pedagogičeskij Institut im. I. Ja. Jakovleva. Učenyje Zapiski. (Cheboksary) (May also appear as: *Cuvaz. Gos. Univ. i Cuvaz. Gos. Ped. Inst. Učen. Zap.*)
- Cuvaz. Gos. Univ. i Cuvaz. Gos. Ped. Inst. Učen. Zap.* Cuvasskij Gosudarstvennyj Universitet im. I. N. Uljanova. Cuvasskij Gosudarstvennyj Pedagogičeskij Institut im. I. Ja. Jakovleva. Učenyje Zapiski. (Cheboksary) (May also appear as: *Čuv. Gos. Ped. Inst. Učen. Zap.*)
- Cybernetica.* Cybernetica. (Namur)
- Cybernetics.* Cybernetics. (New York) (A translation of *Kibernetika (Kiev)*)
- Czechoslovak J. Phys.* Československá Akademie Nauk. Československij Fizičeskij Žurnal. Czechoslovak Academy of Sciences. Czechoslovak Journal of Physics. (Prague)
- Czechoslovak Math. J.* Československá Akademie Nauk. Československij Matematičeskij Žurnal. Czechoslovak Mathematical Journal. (Prague)
- Dagestan. Gos. Univ. Učen. Zap.* Dagestanskij Gosudarstvennyj Universitet im. V. I. Lenina. Učenyje Zapiski. (Makhachkala)
- Daľ'nevostočn. Gos. Univ. Učen. Zap.* Daľ'nevostočnyj Gosudarstvennyj Universitet. Učenyje Zapiski. Serija fiziko-matematičeskikh Nauk. (Vladivostok)
- Daľ'nevostočn. Mat. Sb.* Daľ'nevostočnyj Matematičeskij Sbornik. Ministerstvo Prosveščeniya RSFSR Habarovskij Gosudarstvennyj Institut. (Khabarovsk)
- Danske Vid. Selsk. Mat.-Fys. Medd.* Det Kongelige Danske Videnskabernes Selskab Matematisk-Fysiske Meddelelser. (Copenhagen)
- Defence Sci. J.* Defence Science Journal. (Delhi)
- Delta (Waukesha).* Delta. Waukesha Mathematics Society. (Waukesha, Wis.)
- Demonstratio Math.* Demonstratio Mathematica. (Warsaw)
- Denshi Tsushin Gakkai Ronbunshi.* See *Electron. Commun. Japan and Systems-Computers-Controls*
- Dialogue.* Dialogue. Canadian Philosophical Review. Revue Canadienne de Philosophie. (Montreal, Que.)
- Differencial'nye Uravnenija.* Differencial'nye Uravnenija. (Minsk) (Translated as: *Differential Equations*)
- Differencial'nye Uravnenija i Primenen.* — *Trudy Sem. Processy Optimal. Upravlenija i Sekcija.* Institut Fiziki i Matematiki Akademii Nauk Litovskoj SSR. Differencial'nye Uravnenija i ih Primenenie. Trudy Respublikanskogo Nauchnogo Seminara "Processy Optimal'nogo Upravlenija". I Sekcija. (Vilnius)
- Differential Equations.* Differential Equations. (New York) (Translation of *Differencial'nye Uravnenija*)
- Digital Process.* Digital Processes. An International Journal on the Theory and Design of Digital Systems. (St. Saphorin)
- Dinamika Splošn. Sredy.* Institut Gidrodinamiki Sibirskogo Otdelenija Akademii Nauk SSSR. Dinamika Splošnoj Sredy. (Novosibirsk)
- Discrete Math.* Discrete Mathematics. (Amsterdam)
- Diskret. Analiz.* Akademiya Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Diskretnij Analiz. Sbornik Trudov. (Novosibirsk)
- Dissertationes Math. (Rozprawy Mat.)* Polska Akademia Nauk. Instytut Matematyczny. Dissertationes Mathematicae. Rozprawy Matematyczne. (Warsaw)
- Dokl. Akad. Nauk BSSR.* Doklady Akademii Nauk BSSR. (Minsk)
- Dokl. Akad. Nauk SSSR.* Doklady Akademii Nauk SSSR. (Moscow) (Mathematics section translated as: *Soviet Math. Dokl.*; Physics section translated as: *Soviet Physics Dokl.*)
- Dokl. Akad. Nauk Tadžik. SSR.* Doklady Akademii Nauk Tadžikskoj SSR. (Dushanbe)
- Dokl. Akad. Nauk UzSSR.* Doklady Akademii Nauk UzSSR. (Tashkent)
- Dopovidj Akad. Nauk Ukrain. RSR Ser. A.* Dopovidj Akademii Nauk Ukrain's'koj RSR. Serija A. (Kiev)
- Dopovidj Akad. Nauk Ukrain. RSR Ser. B.* Dopovidj Akademii Nauk Ukrain's'koj RSR. Serija B. (Kiev)
- Duke Math. J.* Duke Mathematical Journal. (Durham, N. C.)
- Dušanbin. Gos. Ped. Inst. Učen. Zap.* Dušanbinskij Gosudarstvennyj Pedagogičeskij Institut im. T. G. Ševčenko. Učenyje Zapiski. (Dushanbe)
- DVT—Dějiny Věd a Techniky.* Dějiny Věd a Techniky. Společnost pro Dějiny Věd a Techniky. (Prague)
- Econom. Comp. Econom. Cybernet. Stud. Res.* Economic Computation and Economic Cybernetics Studies and Research. (Bucharest)
- Econometrica.* Econometrica. Journal of the Econometric Society. (Chicago, Ill.)
- **Ed. Stud. Math.* Educational Studies in Mathematics. (Dordrecht)
- EEA.* Science Abstracts. Electrical & Electronics Abstracts. (London)
- Eesti NSV Tead. Akad. Füüs. Astronoom. Inst. Uurim.* Eesti NSV Teaduste Akadeemia Füüsika ja Astronoomia Instituudi Uurimused. Trudy Instituta Fiziki i Astronomii Akademii Nauk Estonskoj SSR. Publikacii Tartuskoi Astronomičeskoj Observatorii. (Tartu)
- Eesti NSV Tead. Akad. Tartu Astronoom. Observ. Publ.* Eesti NSV Teaduste Akadeemia Tartu Astronoomia Observatooriumi Publikatsioonid. (Tartu)
- Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* Eesti NSV Teaduste Akadeemia Toimetised. Füüsika-Matemaatika. Izvestija Akademii Nauk Estonskoj SSR. Serija Fizika-Matematika. (Tallin)
- Ekonom. i Mat. Metody.* Ekonomika i Matematičeskie Metody. (Moscow)
- Ekonom.-Mat. Obzor.* Československá Akademie Věd. Ekonomicko-Matematický Obzor. (Prague)
- Elabuzh. Gos. Ped. Inst. Učen. Zap.* Elabuzhskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Kazan)
- Electron. Commun. Japan.* Electronics and Communications in Japan. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi*. See also: *Systems-Computers-Controls*)
- Electron. Lett.* Electronics Letters. (London)
- Elektron. Informationsverarbeitung. Kybernetik.* Elektronische Informationsverarbeitung und Kybernetik. (Berlin)
- Elem. Math.* Elemente der Mathematik. Revue de Mathématiques Élémentaires. Rivista di Matematica Elementare. (Basel)
- Engg. Cybernetics.* Engineering Cybernetics. English Edition of *Tekhnicheskaja Kibernetika*. (New York) (Translation of *Izv. Akad. Nauk SSSR Tehn. Kibernet.*)
- Enseignement Math.* L'Enseignement Mathématique. Revue Internationale. (Geneva)
- Erkenntnis.* Erkenntnis. An International Journal of Analytic Philosophy. (Dordrecht)
- Estadist. Española.* Instituto Nacional de Estadística. Estadística Española. (Madrid)
- Estadística.* Inter-American Statistical Institute. Estadística. (Washington, D. C.)
- Euclides (Groningen).* Euclides. Maandblad voor de Didactiek van de Wiskunde. (Groningen)
- Fac. Ingen. Agrimens. Montevideo Publ. Didact. Inst. Mat. Estadist.* Facultad de Ingeniería y Agrimensura. Montevideo. Publicaciones Didácticas del Instituto de Matemática y Estadística. (Montevideo)
- Fasc. Math.* Politechnika Poznańska. Instituta Matematyka. Fasciculi Mathematici. (Poznań)

- Fibonacci Quart.* The Fibonacci Quarterly. Official Organ of the Fibonacci Association. (St. Mary's College, Calif.)
- Fields and Quanta.* Fields and Quanta. (London)
- Fiz. Èlementar. Častic i Atom. Jadra.* Ob"edinennyi Institut Jadernyh Issledovanii. Dubna. Fizika Èlementarnyh Častic i Atomnogo Jadra. (Moscow)
(Translated as: *Soviet J. Particles and Nuclei*)
- Fiz.-Mat. Spis. B'lgar. Akad. Nauk.* B'lgarska Akademiya na Naukite Fizičeski Institut. Matematičeski Institut. Fiziko-Matematičesko Spisanie. (Sofia)
- Fizika (Zagreb).* Fizika. A Journal of Experimental and Theoretical Physics. (Zagreb)
- Fluid Dynamics.* Fluid Dynamics. (New York) (Translation of *Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza*)
- Fluid Mech.—Soviet Res.* Fluid Mechanics. Soviet Research. (Washington, D. C.)
- FOA Rep.* FOA Reports. Försvarets Forskningsanstalt. Research Institute of National Defence. (Stockholm)
- Formosan Sci.* Formosan Science. (Taipei)
- Fortschr. Physik.* Fortschritte der Physik. (Berlin)
- **Found. Control Engrg.* Technical University of Poznań. Institute of Control Engineering. Foundations of Control Engineering. (Poznań)
- Found. Language.* International Journal of Language and Philosophy. Foundations of Language. (Dordrecht)
- Found. Phys.* Foundations of Physics. (New York)
- Frequenz—Z. Schwingungs- und Schwachstromtech.* Frequenz. Zeitschrift für Schwingungs- und Schwachstromtechnik. (Berlin)
- Funct. Approximatio Comment. Math.* Uniwersytet im. Adama Mickiewicza w Poznaniu Instytut Matematyki. Functiones et Approximatio Commentarii Mathematici. (Poznań)
- Functional Anal. Appl.* Functional Analysis and its Applications. (New York)
(Translation of *Funkcional. Anal. i Prilozhen.*)
- Fund. Math.* Polska Akademia Nauk. Fundamenta Mathematicae. (Warsaw)
- Funkcial. Ekvac.* Fako de l'Funkcialaj Ekvacioj Japana Matematika Societo. Funkcialaj Ekvacioj. Serio Internacia. (Kobe)
- Funkcional. Anal. i Prilozhen.* Akademiya Nauk SSSR. Funkcional'nyi Analiz i ego Prilozheniya. (Moscow) (Translated as: *Functional Anal. Appl.*)
- Gac. Mat. (Madrid).* Gaceta Matemática. (Madrid)
- Gamoqeneb. Math. Inst. Sem. Moysen. Anotacie.* Tbilisis Universiteti. Gamoqenebithi Matematikis Institutis Seminari. Moysenebatha Anotaciebi. (Tbilisi) (Also listed as: *Sem. Inst. Prikl. Mat. Annotac. Doklador*)
- Ganita.* Ganita Bharat Ganita Parishad. (Lucknow)
- Gaz. Mat. (Lisboa).* Gazeta de Matemática. (Lisbon)
- **Gaz. Mat. Publ. Lunařu Pentru Tineret.* Gazeta Matematică Publicație Lunară Pentru Tineret. (Bucharest)
- Gaz. Mat. Ser. A.* Societatea de Științe Matematice din R. P. R. Gazeta Matematică. Publicație Pentru Studiul și Răspîndirea Științelor Matematice. Seria A. (Bucharest)
- General Relativity and Gravitation.* General Relativity and Gravitation. (London)
- General Topology and Appl.* General Topology and its Applications. (Amsterdam)
- **Genetics.* Genetics. A Periodical Record of Investigations Bearing on Heredity and Variation. (Austin, Tex.)
- Geodæt. Inst. Medd.* Geodætisk Institut. Meddelelse. (Copenhagen)
- Geodes. and Aerophot.* Geodesy and Aerophotography. (Washington, D. C.)
(Translation of *Izv. Vysš. Učebn. Zaved. Geod. i Aerofot.*) (Continued as: *Geodes. Mapp. Photogramm.*)
- Geometriae Dedicata.* Geometriae Dedicata. (Dordrecht)
- Gidroaëromeh. i Teor. Uprugosti.* Gidroaëromehanika i Teoriya Uprugosti. (Kharkov)
- Giorn. Econom. Ann. Econom.* Giornale degli Economisti e Annali de Economia. (Milan)
- Giorn. Ist. Ital. Attuari.* Giornale dell'Istituto Italiano degli Attuari. (Rome)
- Giorn. Mat. Battaglini.* Giornale di Matematiche di Battaglini. (Naples)
- Glasgow Math. J.* Glasgow Mathematical Journal. (Glasgow)
- Glasnik Mat. Ser. III.* Društvo Matematičara i Fizičara S. R. Hrvatske. Glasnik Matematički. Serija III. (Zagreb)
- Godišnik Viš. Inž.-Stroitel. Inst.* Godišnik na Visšija Inžerno-Stroitelnija Institut. (Sofia)
- Godišnik Viš. Himikotehn. Inst. (Burgas).* Godišnik Visšija Himikotehnologičeski Institut. Burgas. (Sofia)
- Gostinik Viš. Tehn. Učebn. Zaved. Fiz.* Gidišnik na Visšite Tehničeski Učebni Zavedenija. Fizika. (Sofia)
- Godišnik Viš. Tehn. Učebn. Zaved. Mat.* Godišnik na Visšite Tehničeski Učebni Zavedenija. Matematika. (Sofia)
- Godišnik Viš. Tehn. Učebn. Zaved. Priložna Meh.* Godišnik na Visšite Tehničeski Učebni Zavedenija. Priložna Mehanika. (Sofia)
- Gor'kov. Gos. Univ. Učen. Zap.* Gor'kovskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Gorki)
- Graph Theory Newslitt.* Graph Theory Newsletter. (Kalamazoo, Mich.)
- Gruzin. Politehn. Inst. Trudy.* Gruzinskij Politehnikijskij Institut im. V. I. Lenina. Trudy. (Tbilisi) See *V. I. Lenin. Sakharth. Politekh. Inst. Sainecn. Šrom.*
- Gujarat Statist. Rev.* Gujarat Statistical Review. (Ahmedabad)
- Hak-sul Chi.* Hak-sul Chi. (Seoul)
- Helv. Phys. Acta.* Helvetica Physica Acta. Societatis Physicae Helveticae Commentaria Publica. (Basel)
- Hiroshima Math. J.* Hiroshima Mathematical Journal. (Hiroshima)
- Hist.-Filos. Skr. Danske Vid. Selsk.* Historisk-Filosofiske Skrifter Udgivet af det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Hist. of Sci.* History of Science. An Annual Review of Literature, Research, and Teaching. (Cambridge, England)
- Historia Math.* Historia Mathematica. (Toronto, Ont.)
- Hitotsubashi J. Arts Sci.* Hitotsubashi Journal of Arts & Sciences. Hitotsubashi University. (Tokyo)
- Hokkaido Math. J.* Hokkaido Mathematical Journal. (Sapporo)
- **Houston J. Math.* Houston Journal of Mathematics. (Houston, Tex.)
- Humanidades Ser. 4 Lógica Mat.* Humanidades. Serie 4. Lógica Matemática. (Havana)
- IBM J. Res. Develop.* International Business Machines Corporation. Journal of Research and Development. (New York)
- IBM Systems J.* International Business Machines Corporation. Systems Journal. (Armonk, N. Y.)
- **IEEE Trans. Acoust. Speech Signal Process.* Institute of Electrical and Electronics Engineers. Transactions on Acoustics, Speech, and Signal Processing. (New York) (Formerly: *IEEE Trans. Audio Electroacoust.*)
- IEEE Trans. Aerospace and Electron. Systems.* Institute of Electrical and Electronics Engineers. Transactions on Aerospace and Electronic Systems. (New York)
- IEEE Trans. Antennas and Propagation.* Institute of Electrical and Electronics Engineers. Transactions on Antennas and Propagation. (New York)
- **IEEE Trans. Audio Electroacoust.* Institute of Electrical and Electronics Engineers. Transactions on Audio and Electroacoustics. (New York)
(Continued as: *IEEE Trans. Acoust. Speech Signal Processing*)
- IEEE Trans. Automatic Control.* Institute of Electrical and Electronics Engineers. Transactions on Automatic Control. (New York)
- IEEE Trans. Circuits and Systems.* Institute of Electrical and Electronics Engineers. Transactions on Circuits and Systems. (New York)
- IEEE Trans. Comm.* Institute of Electrical and Electronics Engineers. Transactions on Communications. (New York)
- IEEE Trans. Computers.* Institute of Electrical and Electronics Engineers. Transactions on Computers. (New York)
- IEEE Trans. Geosci. Electronics.* Institute of Electrical and Electronics Engineers. Transactions on Geoscience Electronics. (New York)
- IEEE Trans. Information Theory.* Institute of Electrical and Electronics Engineers. Transactions on Information Theory. (New York)
- IEEE Trans. Microwave Theory Tech.* Institute of Electrical and Electronics Engineers. Transactions on Microwave Theory and Techniques. (New York)
- IEEE Trans. Plasma Sci.* Institute of Electrical and Electronics Engineers. Transactions on Plasma Science. (New York)
- **IEEE Trans. Reliab.* Institute of Electrical and Electronics Engineers. Transactions on Reliability. (New York) (Also serves as the Journal of the Electronics Division, American Society for Quality Control)
- **IEEE Trans. Software Engrg.* Institute of Electrical and Electronics Engineers. Transactions on Software Engineering. (New York)
- IEEE Trans. Systems Man Cybernet.* Institute of Electrical and Electronics Engineers. Transactions on Systems, Man, and Cybernetics. (New York)
- Illinois J. Math.* Illinois Journal of Mathematics. (Urbana, Ill.)

- Indag. Math.* Indagationes Mathematicae. See *Nederl. Akad. Wetensch. Indag. Math.*
- Indian J. Engrg. Math.* Indian Journal of Engineering Mathematics. (Agra)
- Indian J. History Sci.* Indian Journal of History of Science. National Institute of Sciences of India. (New Delhi)
- Indian J. Math.* Indian Journal of Mathematics. (Allahabad)
- Indian J. Mech. Math.* Indian Journal of Mechanics and Mathematics. (Calcutta)
- Indian J. Pure Appl. Math.* Indian Journal of Pure and Applied Mathematics. (New Delhi)
- Indian J. Pure Appl. Phys.* Indian Journal of Pure and Applied Physics. (New Delhi)
- Indiana Univ. Math. J.* Indiana University Mathematics Journal. (Bloomington, Ind.)
- Indust. Math.* Industrial Mathematics. (Detroit, Mich.)
- INFOR-Canad. J. Operational Res. and Information Processing.* INFOR. Canadian Journal of Operational Research and Information Processing. (Toronto, Ont.)
- Informác.-Elektron.* Információ-Elektronika. A Központi Statisztikai Hivatal Folyóirata. (Budapest)
- Information and Control.* Information and Control. (New York)
- Information Processing in Japan.* Information Processing in Japan. (Tokyo)
- Information Processing Lett.* Information Processing Letters. (Amsterdam)
- Information Processing Machines.* Information Processing Machines. (Prague)
- Information Sci.* Information Sciences. An International Journal. (New York)
- Information Storage Retrieval.* Information Storage and Retrieval. Libraries-Information Systems-Networks. (Oxford)
- Information Syst.* Information Systems. An International Journal. (Oxford)
- Inst. Gulbenkian Ci. Centro Cálcl. Cl. Estud. Program. Anál. Numér.* Fundação Calouste Gulbenkian. Instituto Gulbenkian de Ciência. Centro de Cálculo Científico. Estudos de Programação e Análise Numérica. (Lisbon)
- Inst. Hautes Études Sci. Publ. Math.* Institut des Hautes Études Scientifiques. Publications Mathématiques. (Paris)
- Inst. Meh. Moskov. Gos. Univ. Naučn. Trudy.* Institut Mehaniki Moskovskogo Gosudarstvennogo Universiteta. Naučnye Trudy. (Moscow)
- Internat. Econom. Rev.* International Economic Review. (Osaka-Philadelphia, Pa.)
- Internat. J. Bio-Med. Comput.* International Journal of Bio-Medical Computing. (Essex)
- Internat. J. Comput. & Fluids.* An International Journal. Computers & Fluids. (New York)
- Internat. J. Comput. Information Sci.* International Journal of Computer and Information Sciences. (New York)
- Internat. J. Comput. Math.* International Journal of Computer Mathematics. Section A. Programming Theory and Methods. Section B. Computational Methods. (New York)
- Internat. J. Control.* International Journal of Control. (London)
- Internat. J. Electron.* International Journal of Electronics. (London)
- Internat. J. Engrg. Sci.* International Journal of Engineering Science. (Oxford)
- Internat. J. Fracture.* International Journal of Fracture. (Leiden) (Formerly: *Internat. J. Fracture Mech.*)
- Internat. J. Fracture Mech.* International Journal of Fracture Mechanics. (Leiden) (Continued as: *Internat. J. Fracture*)
- Internat. J. Game Theory.* International Journal of Game Theory. (Vienna)
- *Internat. J. Gen. Syst.* International Journal of General Systems. Methodology, Applications, Education. (New York)
- Internat. J. Man-Machine Studies.* International Journal of Man-Machine Studies. (London)
- *Internat. J. Math. Ed. Sci. Tech.* International Journal of Mathematical Education in Science and Technology. (Chichester)
- Internat. J. Non-Linear Mech.* International Journal of Non-Linear Mechanics. (New York)
- Internat. J. Numer. Methods Engrg.* International Journal for Numerical Methods in Engineering. (London)
- Internat. J. Solids and Structures.* International Journal of Solids and Structures. (New York)
- Internat. J. Systems Sci.* International Journal of Systems Science. (London)
- Internat. J. Theoret. Phys.* International Journal of Theoretical Physics. (London)
- Internat. Logic Rev.* International Logic Review. Rassegna Internazionale di Logica. (Bologna)
- Internat. Statist. Rev.* International Statistical Review. Revue Internationale de Statistique. (London)
- Invent. Math.* Inventiones Mathematicae. (Berlin)
- Inž.-Fiz. Ž.* Inženerno-Fizičeskij Žurnal. (Minsk) (Translated as: *J. Engrg. Phys.*)
- Inž.-Stroitel. Inst. Kulbyšev. Sb. Trudov.* Moskovskij Ordena Trudovogo Krasnogo Znameni Inženerno-Stroitel'nyj Institut im. V. V. Kulbyseva. Sbornik Trudov. (Moscow)
- Inž. Ž. Meh. Tverd. Tela.* Inženernyi Žurnal. Mehanika Tverdogo Tela. (Moscow) (Continued as: *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)
- Irkutsk. Politehn. Inst. Trudy.* Glavnoe Upravlenie Politehničeskikh, Mašinostroitel'nykh i Energetičeskikh VUZov. Irkutskij Politehničeskij Institut. Trudy. (Irkutsk)
- Isis.* Isis. An International Review Devoted to the History of Science and Civilization. (Cambridge, Mass.)
- Israel J. Math.* Israel Journal of Mathematics. (Jerusalem)
- Israel J. Tech.* Israel Journal of Technology. (Jerusalem)
- Issled. Nekotorykh Voprosov Mat. Kibernet.* Issledovaniya Nekotorykh Voprosov Matematičeskoi Kibernetiki. (Tbilisi) See *Math. Kibernet. Zogierth. Sakith. Gamokw.*
- Ist. Lombardo Accad. Sci. Lett. Rend. A.* Istituto Lombardo. Accademia di Scienze e Lettere. Rendiconti. Scienze Matematiche, Fisiche, Chimiche e Geologiche. A. (Milan)
- Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* Istituto Veneto de Scienze, Lettere ed Arti. Venezia. Atti. Classe de Scienze Matematiche e Naturali. (Venice)
- İstanbul Tek. Üniv. Bül.* İstanbul Teknik Üniversitesi Bülteni. Bulletin of the Technical University of Istanbul. (Istanbul)
- İstanbul Üniv. Fen Fak. Mecm. Ser. A.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. A Serisi. Sırf ve Tatbiki Matematik. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série A. Mathématiques Pures et Appliquées. (Istanbul)
- Istor.-Astronom. Issled.* Istoriko-Astronomičeskie Issledovaniya. (Moscow)
- Istor.-Mat. Issled.* Istoriko-Matematičeskie Issledovaniya. (Moscow)
- Ivanov. Gos. Ped. Inst. Učen. Zap.* Ivanovskij Gosudarstvennyi Pedagogičeskij Institut im. D. A. Furmanova. Ivanovskoe Matematičeskoe Obščestvo. Učenyje Zapiski. (Ivanovo) (Continued as: *Ivanov. Gos. Univ. Učen. Zap.*)
- *Ivanov. Gos. Univ. Učen. Zap.* Ivanovskij Gosudarstvennyi Universitet. Učenyje Zapiski. (Ivanovo) (Formerly: *Ivanov. Gos. Ped. Inst. Učen. Zap.*)
- Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.* Izvestiya Academy of Sciences USSR. Atmospheric and Oceanic Physics. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana*)
- Izv. Acad. Sci. USSR Phys. Solid Earth.* Izvestiya Academy of Sciences USSR. Physics of the Solid Earth. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli*)
- Izv. Akad. Nauk Armjan. SSR Ser. Fiz.* Izvestija Akademii Nauk Armjanskoj SSR. Serija Fizika. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Mat.* Izvestija Akademii Nauk Armjanskoj SSR. Serija Matematika. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Meh.* Izvestija Akademii Nauk Armjanskoj SSR. Serija Mehanika. (Erevan)
- Izv. Akad. Nauk Azerbajdzan. SSR Ser. Fiz.-Tehn. Mat. Nauk.* Izvestija Akademii Nauk Azerbajdzanskoj SSR. Serija Fiziko-Tehniceskikh i Matematiceskikh Nauk. (Baku)
- Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* Izvestija Akademii Nauk Kazahskoj SSR. Serija Fiziko-Matematičeskaja. (Alma-Ata)
- Izv. Akad. Nauk Kirgiz. SSR.* Izvestija Akademii Nauk Kirgizskoj SSR. (Frunze)
- Izv. Akad. Nauk Moldav. SSR.* Izvestija Akademija Nauk Moldavskoj SSR. (Kishinev) See *Bull. Akad. Ştiinţe RSS Moldoven.*
- Izv. Akad. Nauk SSSR Meh. Tverd. Tela.* Izvestija Akademii Nauk SSSR. Mehanika Tverdogo Tela. (Moscow) (Formerly listed as: *Inž. Ž. Meh. Tverd. Tela*) (Translated as: *Mechanics of Solids*)
- Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana.* Izvestija Akademii Nauk SSSR. Serija Fizika Atmosfery i Okeana. (Moscow) (Translated as: *Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.*)

- Izv. Akad. Nauk SSSR Ser. Fiz. Zemli.* *Izvestija Akademii Nauk SSSR Serija Fizika Zemli.* (Moscow) (Translated as: *Izv. Acad. Sci. USSR Phys. Solid Earth*)
- Izv. Akad. Nauk SSSR Ser. Mat.* *Izvestija Akademii Nauk SSSR Serija Matematicheskaja.* (Moscow) (Translated as: *Math. USSR-Izv.*)
- Izv. Akad. Nauk SSSR Meh. Židk. Gaza.* *Akademija Nauk SSSR. Izvestija Akademii Nauk SSSR. Mehanika Židkosti i Gaza.* (Moscow) (Translated as: *Fluid Dynamics*)
- Izv. Akad. Nauk SSSR Tehn. Kibernet.* *Izvestija Akademii Nauk SSSR. Tehničeskaja Kibernetika.* (Moscow) (Translated as: *Engg. Cybernetics*)
- Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk.* *Izvestija Akademii Nauk Tadžikskoi SSR. Otdelenie Fiziko-Matematičeskikh i Geologo-Himičeskikh Nauk.* (Dushanbe)
- Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk.* *Izvestija Akademii Nauk Turkemenskoj SSR. Serija Fiziko-Tehničeskikh, Himičeskikh i Geologičeskikh Nauk.* (Ashkhabad)
- Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk.* *Izvestija Akademii Nauk UzSSR. Serija Fiziko-Matematičeskikh Nauk. UzSSR Fanlar Akademijasining Ahboroti. Fizika-Matematika Fanlari Serijasi.* (Tashkent)
- Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk.* *Izvestija Kazanskogo Filiala Akademii Nauk SSSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk.* (Kazan)
- **Izv. Severo-Kavkaz. Nauch. Centra Vysš. Školy Ser. Tehn. Nauk.* *Severo-Kavkazskogo Nauchnogo Centr Vysšei Školy.* *Izvestija. Serija Tehničeskije Nauki.* (Rostov-on-Don)
- Izv. Sibirsk. Otdel. Akad. Nauk SSSR.* *Izvestija Sibirskogo Otdelenija. Akademija Nauk SSSR.* (Novosibirsk)
- Izv. Tomsk. Politehn. Inst.* *Izvestija Tomskogo Ordena Trudovogo Krasnogo Znameni Politehničeskogo Instituta imeni S. M. Kirova.* (Tomsk)
- Izv. Vuzov=Izv. Vysš. Učebn. Zaved. Matematika.*
- Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* *Izvestija Vysših Učebnyh Zavedenij. Aviacionnaja Tehnika.* (Kazan) (Translated as: *Soviet Aeronaut.*)
- Izv. Vysš. Učebn. Zaved. Elektromehanika.* *Izvestija Vysših Učebnyh Zavedenij. Elektromehanika.* (Novocherkassk)
- Izv. Vysš. Učebn. Zaved. Fizika.* *Izvestija Vysših Učebnyh Zavedenij Fizika.* (Tomsk) (Translated as: *Soviet Physics J.*)
- Izv. Vysš. Učebn. Zaved. Geod. i Aerofot.* *Izvestija Vysših Učebnyh Zavedenij. Geodezija i Aerofotografika.* (Moscow) (Translated as: *Geodes and Aerophot.*)
- Izv. Vysš. Učebn. Zaved. Matematika.* *Izvestija Vysših Učebnyh Zavedenij. Matematika.* (Kazan) (Translated as: *Soviet Math. (Iz. VUZ)*)
- Izv. Vysš. Učebn. Zaved. Radiofizika.* *Izvestija Vysših Učebnyh Zavedenij. Radiofizika.* (Gorki) (Translated as: *Radiophys. and Quantum Electronics*)
- J. Algebra.* *Journal of Algebra.* (New York)
- J. Amer. Statist. Assoc.* *Journal of the American Statistical Association.* (Washington, D. C.)
- J. Analyse Math.* *Journal d'Analyse Mathématique.* (Jerusalem)
- J. Annamalai Univ. Part B Sci.* *Journal of the Annamalai University. Part B. Sciences.* (Annamalainagar)
- J. Appl. Math. Mech.* *Journal of Applied Mathematics and Mechanics. Translation of the Soviet journal Prikladnaja Matematika i Mehanika.* (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Mech. Tech. Phys.* *Journal of Applied Mechanics and Technical Physics.* (New York) (Translation of *Ž. Prikl. Meh. i Tehn. Fiz.*)
- J. Appl. Probability.* *Journal of Applied Probability.* (Sheffield)
- J. Approximation Theory.* *Journal of Approximation Theory.* (New York)
- J. Assoc. Comput. Mach.* *Journal of the Association for Computing Machinery.* (New York)
- J. Astronaut. Sci.* *American Astronautical Society. Journal of the Astronautical Sciences.* (Baltimore, Md.)
- J. Atmospheric Sci.* *Journal of the Atmospheric Sciences.* (Boston, Mass.)
- J. Austral. Math. Soc.* *The Journal of the Australian Mathematical Society.* (Sydney) (Continued as: *J. Austral. Math. Soc. Ser. A* and *J. Austral. Math. Soc. Ser. B*)
- J. Austral. Math. Soc. Ser. A.* *Journal of the Australian Mathematical Society. Series A.* (St. Lucia) (Formerly: *J. Austral. Math. Soc.*)
- **J. Austral. Math. Soc. Ser. B.* *Australian Mathematical Society. Series B. Applied Mathematics. Journal.* (St. Lucia)
- J. Birla Inst. Tech. and Sci. Pilani.* *Journal of the Birla Institute of Technology and Science.* (Pilani)
- J. Chem. Phys.* *The Journal of Chemical Physics.* (New York)
- J. Combinatorial Theory Ser. A.* *Journal of Combinatorial Theory. Series A.* (New York)
- J. Combinatorial Theory Ser. B.* *Journal of Combinatorial Theory. Series B.* (New York)
- J. Comput. Appl. Math.* *Journal of Computational and Applied Mathematics.* (Antwerp)
- J. Comput. System Sci.* *Journal of Computer and System Sciences.* (New York)
- J. Computational Phys.* *Journal of Computational Physics.* (New York)
- J. Cuneliform Studies.* *Journal of Cuneliform Studies.* (New Haven, Conn.)
- J. Cybernet.* *Journal of Cybernetics. Transactions of the American Society for Cybernetics.* (Washington, D. C.) (Contents include translations from related Japanese and Russian journals.)
- J. Differential Equations.* *Journal of Differential Equations.* (New York)
- J. Differential Geometry.* *Journal of Differential Geometry.* (Bethlehem, Pa.)
- J. Econom.* *Journal of Econometrics.* (Amsterdam)
- J. Econom. Theory.* *Journal of Economic Theory.* (New York)
- J. Elasticity.* *Journal of Elasticity.* (Leiden)
- J. Elisha Mitchell Sci. Soc.* *Journal of the Elisha Mitchell Scientific Society.* (Chapel Hill, N. C.)
- J. Engng. Math.* *Journal of Engineering Mathematics.* (Groningen)
- J. Engng. Phys.* *Journal of Engineering Physics.* (New York) (Translation of *Inž.-Fiz. Ž.*)
- J. Fac. Engng. Chiba Univ.* *Journal of the Faculty of Engineering. Chiba University.* (Chiba)
- J. Fac. Engng. Univ. Tokyo Ser. B.* *Journal of the Faculty of Engineering. University of Tokyo. Series B.* (Tokyo)
- J. Fac. Sci. Shinsu Univ.* *Journal of the Faculty of Science. Shinshu University.* (Matsumoto)
- J. Fac. Sci. Univ. Tokyo Sect. IA Math.* *Journal of the Faculty of Science. University of Tokyo. Section IA. Mathematics.* (Tokyo)
- J. Fluid Mech.* *Journal of Fluid Mechanics.* (London)
- J. Franklin Inst.* *Journal of the Franklin Institute.* (Philadelphia, Pa.)
- J. Functional Analysis.* *Journal of Functional Analysis.* (New York)
- J. Geometry.* *Journal of Geometry.* (Basel)
- J. Hist. Astronom.* *Journal for the History of Astronomy.* (London)
- J. Hokkaido Univ. Ed. Sect. II A.* *Journal of Hokkaido University of Education. Section II A.* (Sapporo)
- J. Indian Inst. Sci.* *Indian Institute of Science. Journal.* (Bangalore)
- J. Indian Math. Soc.* *The Journal of the Indian Mathematical Society.* (Madras)
- J. Indian Statist. Assoc.* *Journal of the Indian Statistical Association.* (Bombay)
- J. Inst. Math. Appl.* *Journal of the Institute of Mathematics and its Applications.* (New York)
- J. Internat. Assoc. Mathematical Geol.* *Journal of the International Association for Mathematical Geology.* (New York)
- J. Japan Statist. Soc.* *Journal of the Japan Statistical Society (Nihon Tōkei Gakkai Kaihō).* (Tokyo)
- J. Karnatak Univ. Sci.* *Journal of the Karnatak University. Science.* (Dharwar)
- J. Korean Math. Soc.* *Journal of the Korean Mathematical Society.* (Seoul)
- J. London Math. Soc.* *The Journal of the London Mathematical Society.* (London)
- J. Madras Univ. B.* *Journal of the Madras University. B. Contributions in Mathematics, Physical and Biological Sciences.* (Madras)
- J. Math. Anal. Appl.* *Journal of Mathematical Analysis and Applications.* (New York)
- J. Math. and Sci.* *Journal of Mathematics and Sciences.* (Islamabad)
- J. Math. Biol.* *Journal of Mathematical Biology.* (New York)
- J. Math. Econom.* *Journal of Mathematical Economics.* (Amsterdam)
- J. Math. (Jabalpur).* *Journal of Mathematics.* (Jabalpur)
- J. Math. Kyoto Univ.* *Journal of Mathematics of Kyoto University.* (Kyoto)
- J. Math. Pures Appl.* *Journal de Mathématiques Pures et Appliquées.* (Paris)
- J. Math. Sci.* *Journal of Mathematical Sciences. The Society of Mathematical Sciences.* (Delhi)
- J. Math. Soc. Japan.* *Journal of the Mathematical Society of Japan.* (Tokyo)
- J. Math. Tokushima Univ.* *Journal of Mathematics. Tokushima University.* (Tokushima)

- J. Mathematical and Physical Sci.* Journal of Mathematical and Physical Sciences. (Madras)
- J. Mathematical Phys.* Journal of Mathematical Physics. (New York)
- J. Mathematical Psychology.* Journal of Mathematical Psychology. (New York)
- J. Mathematical Sociology.* The Journal of Mathematical Sociology. (London)
- J. Mécanique.* Journal de Mécanique. (Paris)
- J. Mech. Phys. Solids.* Journal of the Mechanics and Physics of Solids. (London)
- J. Multivariate Anal.* Journal of Multivariate Analysis. (New York)
- J. Natur. Sci. and Math.* The Journal of Natural Sciences and Mathematics. (Lahore)
- J. Nuclear Sci. and Tech.* Journal of Nuclear Science and Technology. (Tokyo)
- J. Number Theory.* Journal of Number Theory. (New York)
- J. of M.A.C.T.* Journal of the Maulana Azad College of Technology. (Bhopal)
- J. Operations Res. Soc. Japan.* Journal of the Operations Research Society of Japan. (Tokyo)
- J. Opt. Soc. Amer.* Journal of the Optical Society of America. (New York)
- J. Optimization Theory Appl.* Journal of Optimization Theory and Applications. (New York)
- J. Philos. Logic.* Journal of Philosophical Logic. (Dordrecht)
- J. Phys. A.* Journal of Physics. A. General Physics. (London)
- J. Phys. B.* Journal of Physics. B. Atomic and Molecular Physics. (London)
- J. Phys. Soc. Japan.* Journal of the Physical Society of Japan. (Tokyo)
- J. Physique.* Le Journal de Physique. (Paris)
- **J. Proc. Roy. Soc. New South Wales.* Royal Society of New South Wales. Journal and Proceedings. (Sydney)
- J. Pure Appl. Algebra.* Journal of Pure and Applied Algebra. (Amsterdam)
- J. Quant. Spectrosc. Radiat. Transfer.* Journal of Quantitative Spectroscopy & Radiative Transfer. (Oxford)
- J. Recreational Math.* Journal of Recreational Mathematics. (Westport, Conn.)
- J. Reine Angew. Math.* Journal für die Reine und Angewandte Mathematik. (Berlin)
- J. Res. Nat. Bur. Standards Sect. B.* Journal of Research of the National Bureau of Standards. Section B. Mathematical Sciences. (Washington, D. C.)
- J. Roy. Statist. Soc. Ser. A.* Journal of the Royal Statistical Society. Series A. General. (London)
- J. Roy. Statist. Soc. Ser. B.* Journal of the Royal Statistical Society. Series B. Methodological. (London)
- J. Roy. Statist. Soc. Ser. C Appl. Statist.* Journal of the Royal Statistical Society. Series C. Applied Statistics. (London)
- J. Sci. Engrg. Res.* Journal of Science and Engineering Research. (Kharagpur)
- J. Sci. Res. Banaras Hindu Univ.* The Journal of Scientific Research of the Banaras Hindu University. (Varanasi)
- J. Shivaji Univ.* Journal of Shivaji University. (Kolhapur)
- J. Soviet Math.* Journal of Soviet Mathematics. (New York) (Translation of: (1) Itogi Nauki—Seriya Matematika (Progress in Science—Mathematical Series); (2) Problemy Matematicheskogo Analiza (Problems in Mathematical Analysis); (3) Zap. Nauch. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI))
- J. Statist. Comp. and Simulation.* Journal of Statistical Computation and Simulation. (New York)
- J. Statist. Phys.* Journal of Statistical Physics. (New York)
- J. Statist. Res.* Journal of Statistical Research. (Dacca)
- J. Symbolic Logic.* The Journal of Symbolic Logic. (Providence, R. I.)
- J. Tech. Bengal Engrg. College.* Journal of Technology. Bengal Engineering College. (Howrah)
- J. Tech. Phys.* Polish Academy of Sciences. Institute of Fundamental Technological Research. Journal of Technical Physics. (Warsaw) (Formerly: Proc. Vibration Problems)
- J. Theoret. Biol.* Journal of Theoretical Biology. (London)
- J. Tsuda College.* Journal of Tsuda College. (Tokyo)
- J. Univ. Bombay.* Journal of the University of Bombay. (Bombay)
- J. Univ. Kuwait Sci.* The Journal of the University of Kuwait. Science. (Kuwait)
- J. Warburg and Courtauld Inst.* Journal of the Warburg and Courtauld Institutes. (London)
- Jadernaja Fiz.* Akademiya Nauk SSSR. Jadernaja Fizika. (Moscow) (Translated as: *Soviet J. Nuclear Phys.*)
- Janus.* Janus. Revue Internationale de l'Histoire des Sciences, de la Médecine, de la Pharmacie et de la Technique. (Leiden)
- Japan. J. Math.* Science Council of Japan. Japanese Journal of Mathematics. (Tokyo)
- Jaroslav. Gos. Ped. Inst. Dokl. Nauch. Konfer.* Jaroslavskij Gosudarstvennyj Pedagogičeskij Institut. Doklady na Nauchnyh Konferencijah. (Jaroslavl')
- Jaroslav. Gos. Ped. Inst. Učen. Zap.* Jaroslavskij Gosudarstvennyj Pedagogičeskij Institut im. K. D. Ušinskogo. Učenyje Zapiski. (Jaroslavl')
- Jaroslav. Tehn. Inst. Fiz.-Mat. Nauk. Sb. Nauch. Trudov.* Jaroslavskij Tehnologičeskij Institut. Fiziko-Matematičeskie Nauki. Sbornik Nauchnyh Trudov. (Jaroslavl')
- Jber. Deutsch. Math.-Verein.* Jahresbericht der Deutschen Mathematiker-Vereinigung. (Stuttgart)
- JBSP—J. British Soc. Phenomenology.* JBSP. The Journal of the British Society for Phenomenology. (Manchester)
- Jbuch.* Jahrbuch über die Fortschritte der Mathematik. (Berlin)
- Jñānabha Sect. A.* Jñānabha. Section A. Dayanand Vedic Postgraduate College. Kanpur University. (Orai)
- Kabardino-Balkarsk. Gos. Univ. Učen. Zap.* Kabardino-Balkarskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Nalchik)
- Kalinin. Gos. Ped. Inst. Učen. Zap.* Kalininskij Gosudarstvennyj Pedagogičeskij Institut im. M. I. Kalinina. Učenyje Zapiski. (Kalinin)
- Kaliningrad. Gos. Ped. Inst. Učen. Zap.* Kaliningradskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Kaliningrad)
- **Kaliningrad. Gos. Univ. Trudy Kaf. Teoret. i Eksper. Fiz.* Kaliningradskij Gosudarstvennyj Universitet. Trudy Kafedry Teoreticheskoi i Eksperimental'noi Fiziki. (Kaliningrad)
- Kaliningrad. Gos. Univ. Učen. Zap.* Kaliningradskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Kaliningrad)
- Karachi Math. Assoc. Riazi (Souvenir).* Riazi. Souvenir of the Karachi Mathematics Association. (Karachi)
- Kazakh. Gos. Ped. Inst. Učen. Zap.* Kazahskij Gosudarstvennyj Pedagogičeskij Institut im. Abaja. Učenyje Zapiski. (Alma-Ata) (May also appear as: *Alma-Atin. Gos. Ped. Inst. Učen. Zap.*)
- Kazan. Gos. Univ. Učen. Zap.* Kazanskij Ordena Trudovogo Krasnogo Znameni Gosudarstvennyj Universitet im. V. I. Ul'janova-Lenina. Učenyje Zapiski. (Kazan)
- Keiei-Kagaku.* Keiei-Kagaku (Management Science). Japanese Operations Research Association. (Tokyo)
- Keio Engrg. Rep.* Keio Engineering Reports. (Tokyo)
- Keirō Kokugogaku* See *Math. Linguist.*
- Kemerov. Gos. Ped. Inst. Učen. Zap.* Kemerovskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Kemerovo)
- Kenkyū Kiyō—Gakushūin Kōtōka.* Memoirs of Gakushūin High School. (Tokyo)
- Kexue Tongbao.* Chinese Academy of Science. Kexue Tongbao (Science Bulletin). (Peking)
- Kexue Tongbao (Foreign Lang. Ed.).* Academia Sinica. Kexue Tongbao (Science Bulletin). Foreign Language Edition. (Peking)
- Kibernetika (Kiev).* Otdelenie Matematiki, Mehaniki i Kibernetiki Akademii Nauk Ukrainako SSR. Kibernetika. (Kiev) (Translated as: *Cybernetics*)
- Kirov. Gos. Ped. Inst. Učen. Zap.* Kirovskij Gosudarstvennyj Pedagogičeskij Institut im. V. I. Lenina. Učenyje Zapiski. (Yoshkar-Ola)
- Kišinev. Gos. Univ. Učen. Zap.* Kišinevskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Kishinev)
- Knižnice Odborn. Věd. Spisů Vysoké. Učení Tech. v Brně.* Knižnice Odborných a Vědeckých Spisů Vysokého Učení Technického v Brně. Vysoké Učení Technické v Brně. (Brno)
- Kōdai Math. Sem. Rep.* Kōdai Mathematical Seminar Reports. (Tokyo)
- Kolomen. Ped. Inst. Učen. Zap.* Kolomenskij Pedagogičeskij Institut. Učenyje Zapiski. (Kolomna)
- Kombinatornyj Anal.* Kombinatornyj Analiz. Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. (Moscow)
- Kosmices. Issled.* Kosmičeskie Issledovanija. (Moscow) (Translated as: *Cosmic Res.*)
- Kostrom. Gos. Ped. Inst. Učen. Zap.* Kostromskij Gosudarstvennyj Pedagogičeskij Institut im. N. A. Nekrasova. Učenyje Zapiski. (Jaroslavl')

- Közlemények—MTA Számítástechn. Automat. Kutató Int. Budapest* Közlemények. MTA Számítástechnikai és Automatizálási Kutató Intézet Budapest. (Budapest)
- Krasnojarsk. Politehn. Inst. Sb. Naučn. Trudov Meh. Fak.* Krasnojarskii Politehnicheskii Institut. Sbornik Nauchnyh Trudov Mekhanicheskogo Fakul'teta. (Krasnoyarsk)
- Kuban. Gos. Univ. Naučn. Trudy.* Kubanskii Gosudarstvennyi Universitet. Naučnye Trudy. (Krasnodar)
- Kuibyshev. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosvещения RSFSR. Kuibyshevskii Gosudarstvennyi Pedagogicheskii Institut im. V. V. Kuibysheva. Učenyne Zapiski. (Kuibyshev)
- Kumamoto J. Sci. (Math).* Kumamoto Journal of Science. Mathematics. (Kumamoto) (Formerly: *Kumamoto J. Sci. Ser. A*)
- Kumamoto J. Sci. Ser. A.* Kumamoto Journal of Science. Series A Mathematics, Physics and Chemistry. (Kumamoto)
- Kursk. Gos. Ped. Inst. Učen. Zap.* Kurskii Gosudarstvennyi Pedagogicheskii Institut. Učenyne Zapiski. (Belgorod)
- **Kwart. Hist. Nauki i Tech.* Polska Akademia Nauk. Zakład Historii Nauki i Techniki. Kwartalnik Historii Nauki i Techniki. (Warsaw)
- Kybernetes.* Күбернетіс. An International Journal of Cybernetics and General Systems. (London)
- Kybernetika (Prague).* Kybernetika. (Prague)
- Kyungpook Math. J.* Kyungpook National University. Kyungpook Mathematical Journal. (Taegu)
- Labdev—J. Sci. Tech. Part A.* Labdev. Journal of Sciences and Technology. Part A. Physical Sciences. (Kanpur)
- Laboratorio Anal. Numer. Consiglio Naz. Ricerche Pubbl.* Laboratorio di Analisi Numerica del Consiglio Nazionale delle Ricerche. Pubblicazioni. (Pavia)
- Latvijas PSR Zinātņu Akad. Vēstis.* Latvijas PSR Zinātņu Akademijas Vēstis. Izvestija Akademii Nauk Latvijas SSR. (Riga)
- Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* Latvijas PSR Zinātņu Akademijas Vēstis. Fizikas un Tehnisko Zinātņu Sērija. Izvestija Akademii Nauk Latvijas SSR. Serija Fizicheskikh i Tehnicheskikh Nauk. (Riga)
- Latvijas Valsts Univ. Zinātn. Raksti.* PSRS Augstākās Izglītības Ministrija. Pēteru Stučkas Latvijas Valsts Universitāte. Zinātniskie Raksti. Ministerstvo Vysshego Obrazovaniya. Latvijas PSR Gosudarstvennyi Universitet im. Petra Stučki. Učenyne Zapiski. (Riga)
- Leninabad. Gos. Ped. Inst. Učen. Zap.* Leninabadskii Gosudarstvennyi Pedagogicheskii Institut. Učenyne Zapiski. (Dushanbe)
- Leningrad. Gos. Ped. Inst. Učen. Zap.* Leningradskii Gosudarstvennyi Pedagogicheskii Institut im. A. I. Gercena. Učenyne Zapiski. (Leningrad)
- Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk. Trudy Astronom. Obser.* Leningradskii Gosudarstvennyi Ordena Lenina Universitet imeni A. A. Ždanova. Učenyne Zapiski. Serija Matematicheskikh Nauk. Trudy Astronomicheskoi Observatorii. (Leningrad)
- Leningrad. Inž.-Ekonom. Inst. Trudy.* Leningradskii Inženerno-Ekonomicheskii Institut imeni Pal'miro Tol'jatti. Trudy. (Leningrad)
- Leningrad. Inž.-Stroitel. Inst. Sb. Trudov.* Leningradskii Inženerno-Stroitel'skii Institut. Sbornik Trudov. (Leningrad)
- Leningrad. Meh. Inst. Sb. Trudov (LMI).* Leningradskii Mekhanicheskii Institut. Sbornik Trudov (LMI). (Leningrad)
- Leningrad. Politehn. Inst. Trudy.* Leningradskii Politehnicheskii Institut im. M. I. Kalinina. Trudy LPI. (Leningrad)
- **Lett. Math. Phys.* Letters in Mathematical Physics. A Journal for the Rapid Dissemination of Short Contributions in the Field of Mathematical Physics. (Dordrecht)
- Lett. Nuovo Cimento.* Lettere al Nuovo Cimento. Rivista Internazionale della Società Italiana di Fisica. (Bologna)
- Libyan J. Sci.* The Libyan Journal of Science. (Tripoli)
- Linear Algebra and Appl.* Linear Algebra and its Applications. (New York)
- Linear and Multilinear Algebra.* Linear and Multilinear Algebra. (New York)
- **Lithuanian Math. Trans.* Lithuanian Mathematical Transactions. (New York) (Translation of *Litovsk. Mat. Sb.*) (Formerly: *Math. Trans. Acad. Sci. Lithuanian SSR*)
- Litovsk. Fiz. Sb.* Lietuvos TSR Mokslų Akademija. Lietuvos TSR Aukštojo Mokyklos. Lietuvos Fizikos Rinkiny. Akademija Nauk Litovskoi SSR. Vysshe Skoly Litovskoi SSR. Litovskii Fizicheskii Sbornik. (Vilnius) (Translated as: *Soylet Physics—Collection*)
- Litovsk. Mat. Sb.* Lietuvos TSR Mokslų Akademija. Lietuvos TSR Aukštojo Mokyklos. Lietuvos Matematikos Rinkiny. Akademija Nauk Litovskoi SSR. Vysshe Učebnye Zavedeniya Litovskoi SSR. Litovskii Matematicheskii Sbornik. (Vilnius)
- Logique et Analyse.* Logique et Analyse. (Louvain)
- Lucrări Ști. Inst. Ped. Galați.* Lucrări Științifice. Institutul Pedagogic Galați. (Galați)
- L'vov. Politehn. Inst. Naučn. Zap. Ser. Fiz.-Mat.* MVO USSR. L'vovskii Politehnicheskii Institut. Naučnye Zapiski. Seriya Fiziko-Matematicheskaja. (Lvov)
- Magnetohydrodynamics.* Magnetohydrodynamics. (A translation of *Magnitnaya Gidrodinamika* of the Academy of Sciences of the Latvian SSR). (New York) (Translation of *Magnit. Gidrodinamika*)
- Magnit. Gidrodinamika.* Akademija Nauk Latvijas SSR. Magnitnaja Gidrodinamika. (Riga) (Translated as: *Magnetohydrodynamics*)
- Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* A Magyar Tudományos Akadémia Matematikai és Fizikai Tudományok Osztályának Közleményei. (Budapest)
- Makedon. Akad. Nauk. Umet. Oddel. Prirod.-Mat. Nauk. Prilozi.* Makedonska Akademija na Naukite i Umetnostite. Oddelenie za Prirodo-Matematicheski Nauki. Prilozi. (Skopje)
- Management Sci.* Management Science. Journal of the Institute of Management Science. Application and Theory Series. (Philadelphia, Pa.)
- Manifold.* Manifold. A Mathematics Magazine. (Coventry)
- Manuscripta Math.* Manuscripta Mathematica. (Berlin)
- Mar. Gos. Ped. Inst. Učen. Zap.* Maršinskii Gosudarstvennyi Pedagogicheskii Institut. Učenyne Zapiski. (Ioshkar-Ola)
- Mat. Časopis Sloven. Akad. Vied.* Matematický Časopis Slovenskej Akadémie Vied. (Bratislava)
- Mat. Enseñanza.* Matematicas y Enseñanza. (Mexico City)
- Mat.-Fys. Medd. Danske Vid. Selsk.* Matematiskfysiske Meddelelser udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Mat. Issled.* Akademija Nauk Moldavskoi SSR. Institut Matematiki s Vyčislitel'nyim Centrom. Matematicheskie Issledovaniya. (Kishinev)
- Mat. Lapok.* Matematikai Lapok. Bolyai János Matematikai Társulat. (Budapest)
- Mat. Metody v Social. Nauk.—Trudy Sem. Processy Optimal. Upravleniya II Sekcija.* Institut Fiziki i Matematiki Litovskoi SSR. Matematicheskie Metody v Social'nykh Naukakh. Trudy Respublikanskogo Nauchnogo Seminara "Processy Optimal'nogo Upravleniya". II Sekcija. (Vilnius)
- Mat. Sb.* Matematicheskii Sbornik. Novaya Seriya. (Moscow) (Translated as: *Math. USSR-Sb.*)
- Mat. v Škole.* Ministerstvo Prosvещения RSSR. Matematika v Škole. (Moscow)
- Mat. Vesnik.* Društvo Matematičara, Fizičara i Astronoma SRS i Matematički Institut-Beograd. Matematički Vesnik. Nova Seriya. (Belgrade)
- Mat. Zametki.* Akademija Nauk Sojuza SSR. Matematicheskie Zametki. (Moscow) (Translated as: *Math. Notes*)
- Matematiche (Catania).* Le Matematiche. (Catania)
- Matematika (Belgrade).* Matematika. (Belgrade)
- Matematika—Period. Sb. Perevodov Inostran. Statef.* Matematika. Periodicheski Sbornik Perevodov Inostrannykh Statef. (Moscow)
- Math. Ann.* Mathematische Annalen. (Berlin)
- Math. Balkanica.* Mathematica Balkanica. (Belgrade)
- Math. Biosci.* Mathematical Biosciences: An International Journal. (New York)
- Math. Centrum Amsterdam Afd. Toegepaste Wisk.* Mathematisch Centrum Amsterdam. Afdeling Toegepaste Wiskunde. (Amsterdam)
- Math. Centrum Amsterdam Afd. Zuivere Wisk.* Mathematisch Centrum Amsterdam. Afdeling Zuivere Wiskunde. (Amsterdam)
- Math. Centrum Amsterdam Rekenafdeling.* Mathematisch Centrum Amsterdam. Rekenafdeling. (Amsterdam)
- Math. Chronicle.* Mathematical Chronicle. (Auckland)
- Math. Comput.* Mathematics of Computation. (Providence, R. I.) (Sometimes abbreviated as *MC* in the text of *Math. Reviews*)
- Math. Education.* The Mathematics Education. (Siwan)
- Math. Gaz.* The Mathematical Gazette. (London)
- Math. J. Okayama Univ.* Mathematical Journal of Okayama University. (Okayama)

- Math. Japon.* *Mathematica Japonicae.* (Osaka)
- **Math. Linguist.* *Mathematical Linguistics.* Keiryō Kokugogaku. (Tokyo)
- Math. Kibernet. Zogierth. Sakith. Gamokw.* *Mathematikuri Kibernetikis Zogierthi Sakithxis Gamokwewa.* Tbilisis Sagelmcpio Universiteti Gamoqenebithi *Mathematikis Instituti.* (Tbilisi) (Also listed as: *Issled. Nekotoryh Voprosov Mat. Kibernet.*)
- Math. Mag.* *Mathematics Magazine.* (Buffalo, N. Y.)
- Math. Nachr.* *Mathematische Nachrichten.* (Berlin)
- Math. Notae.* *Mathematicae Notae.* Boletín del Instituto de Matemática. (Rosario)
- Math. Notes.* *Mathematical Notes of the Academy of Sciences of the USSR.* (New York) (Translation of *Mat. Zametki*)
- Math. Operationsforsch. Statist.* *Mathematische Operationsforschung und Statistik.* (Berlin)
- Math.-Phys. Semesterber.* *Mathematisch-Physikalische Semesterberichte.* (Göttingen)
- Math. Proc. Cambridge Philos. Soc.* *Mathematical Proceedings of the Cambridge Philosophical Society.* (Cambridge, England)
- Math. Programming.* *Mathematical Programming.* (Amsterdam)
- Math. Rep. College General Ed. Kyushu Univ.* *Mathematical Reports of College of General Education.* Kyushu University. (Fukuoka)
- Math. Scand.* *Mathematica Scandinavica.* (Copenhagen)
- Math. Sci. Humaines.* *Centre de Mathématique Sociale. École Pratique des Hautes Études. Mathématiques et Sciences Humaines.* (Paris)
- Math. Seminar.* *The Mathematics Seminar.* (Delhi)
- Math. Student.* *The Mathematics Student.* (Madras)
- Math. Systems Theory.* *Mathematical Systems Theory.* (New York)
- **Math. Trans. Acad. Sci. Lithuanian SSR.* *Lithuanian SSR. Academy of Science. Mathematical Transactions.* (New York) (Translation of *Litovsk. Mat. Sb.*) (Continued as: *Lithuanian Math. Trans.*)
- Math. USSR-Izv.* *Mathematics of the USSR-Izvestiya.* (Providence, R. I.) (Translation of *Izv. Akad. Nauk SSSR Ser. Mat.*)
- Math. USSR-Sb.* *Mathematics of the USSR-Sbornik.* (Providence, R. I.) (Translation of *Mat. Sb.*)
- Math. Z.* *Mathematische Zeitschrift.* (Berlin)
- Mathematica (Cluj).* *Societatea de Științe Matematice și Fizice din R.P.R. Filiala Cluj. Mathematica.* (Cluj)
- Mathematika.* *Mathematika.* A Journal of Pure and Applied Mathematics. (London)
- Matrix Tensor Quart.* *The Tensor Club of Great Britain. The Matrix and Tensor Quarterly.* (London)
- MC.* *Mathematics of Computation.* (Providence, R. I.) (Reviewed as: *Math. Comput.*)
- Meccanica—J. Italian Assoc. Theoret. Appl. Mech.* *Meccanica.* Journal of the Italian Association of Theoretical and Applied Mechanics. (Milan)
- Mech. Teoret. Stoz.* *Polskie Towarzystwo Mechaniki Teoretycznej i Stosowanej. Mechanika Teoretyczna i Stosowana.* (Warsaw)
- Mechanics of Solids.* *Mechanics of Solids.* (New York) (Translation of *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)
- Med. Konink. Acad. Wetensch. Lett. Schone Kunst. België' Kl. Wetensch.* *Mededelingen van de Koninklijke Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen.* (Brussels)
- Mehanika—Period. Sb. Perevodov Inostran. Statei.* *Mehanika. Periodičeskij Sbornik Perevodov Inostrannyh Statei.* (Moscow)
- Mehanika Polimerov.* *Akademija Nauk Latvīskoj SSR. Institut. Mehaniki Polimerov. Mehanika Polimerov.* (Riga)
- Melekess. Gos. Ped. Inst. Učen. Zap.* *Melekesskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski.* (Melekess)
- Mem. Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* *Memorie dell'Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali.* (Turin)
- Mem. Amer. Math. Soc.* *Memoirs of the American Mathematical Society.* (Providence, R. I.)
- Mem. Defense Acad.* *Memoirs of the Defense Academy. Mathematics, Physics, Chemistry and Engineering.* (Yokosuka)
- Mem. Ehime Univ. Natur. Sci. Ser. A.* *Memoirs of the Ehime University. Natural Science. Series A.* (Matsuyama)
- Mem. Fac. Ed. Kumamoto Univ. Sect. 1.* *Memoirs of the Faculty of Education. Kumamoto University. Section 1. Natural Science.* (Kumamoto)
- Mem. Fac. Ed. Miyazaki Univ.* *Memoirs of the Faculty of Education. Miyazaki University.* (Miyazaki)
- Mem. Fac. Engrg. Hiroshima Univ.* *Memoirs of the Faculty of Engineering. Hiroshima University.* (Hiroshima)
- Mem. Fac. Engrg. Kyoto Univ.* *Memoirs of the Faculty of Engineering. Kyoto University.* (Kyoto)
- Mem. Fac. Engrg. Miyazaki Univ.* *Memoirs of the Faculty of Engineering. Miyazaki University.* (Miyazaki)
- **Mem. Fac. Gen. Ed. Kumamoto Univ. Natur. Sci.* *Kumamoto University. Faculty of General Education. Natural Sciences. Memoirs.* (Kumamoto)
- Mem. Fac. Indust. Arts Kyoto Tech. Univ. Sci. and Tech.* *Memoirs of the Faculty of Industrial Arts. Kyoto Technical University. Science and Technology.* (Kyoto)
- Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci.* *Memoirs of the Faculty of Literature and Science. Shimane University. Natural Sciences.* (Matsue) (Formerly: *Bull. Shimane Univ. Natur. Sci.*)
- Mem. Fac. Sci. Kyushu Univ. Ser. A.* *Memoirs of the Faculty of Science. Kyushu University. Series A. Mathematics.* (Fukuoka)
- Mem. Kitami Inst. Tech.* *Memoirs of the Kitami Institute of Technology.* (Kitami)
- Mem. Mat. Inst. "Jorge Juan".* *Consejo Superior de Investigaciones Científicas. Memorias de Matemática del Instituto "Jorge Juan".* (Madrid)
- Mem. Muroran Inst. Tech.* *Memoirs of the Muroran Institute of Technology.* (Murooran)
- Mem. Numer. Math.* *Memoirs of Numerical Mathematics.* (Kyoto)
- Mem. Osaka Inst. Tech. Ser. A.* *Memoirs of the Osaka Institute of Technology. Series A. Science & Technology.* (Osaka)
- Mem. Osaka Kyoiku Univ. III Natur. Sci. Appl. Sci.* *Memoirs of Osaka Kyoiku University. III. Natural Science and Applied Science.* (Osaka)
- Mem. Real Acad. Cl. Art. Barcelona.* *Memorias de la Real Academia de Ciencias y Artes de Barcelona.* (Barcelona)
- Mem. Real Acad. Cl. Exact. Fis. Natur. Madrid.* *Memorias de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. Serie de Ciencias Exactas.* (Madrid)
- Mem. School Engrg. Okayama Univ.* *Memoirs of the School of Engineering. Okayama University.* (Okayama)
- Mem. School Sci. Engrg. Waseda Univ.* *Memoirs of the School of Science and Engineering. Waseda University.* (Tokyo)
- Mem. Soc. Astronom. Ital.* *Memorie della Società Astronomica Italiana.* (Milan)
- Mém. Soc. Roy. Sci. Liège Coll. in-8.* *Mémoires de la Société Royale des Sciences de Liège. Collection in-8.* (Liège)
- Mémor. Sci. Math.* *Mémorial des Sciences Mathématiques.* (Paris)
- Mémor. Sci. Phys.* *Mémorial des Sciences Physiques.* (Paris)
- Metody Vyčisl.* *Leningradskij Ordena Lenina Gosudarstvennyj Universitet im. A. A. Zdanova. Kafedra Vyčislitel'noj Matematiki i Vyčislitel'nyj Centr. Metody Vyčislenij.* (Leningrad)
- Metra.* *Metra.* (Montrouge)
- Metrika.* *Metrika.* (Würzburg)
- Metroecon.* *Metroeconomica. Rivista Internazionale di Economia.* (Bologna)
- Metron.* *Metron.* (Rome)
- METU J. Pure Appl. Sci.* *Middle East Technical University. Journal of Pure and Applied Sciences. Orta Doğu Teknik Üniversitesi. Temel ve Uygulamalı Bilimler Dergisi.* (Ankara)
- Michigan Math. J.* *The Michigan Mathematical Journal.* (Ann Arbor, Mich.)
- Mind.* *Mind.* A Quarterly Review of Psychology and Philosophy. (Oxford)
- Miscelánea Mat.* *Miscelánea Matemática.* (Mexico City)
- Mitt. Math. Gesellsch. Hamburg.* *Mitteilungen der Mathematischen Gesellschaft in Hamburg.* (Hamburg)
- Mitt. Math. Sem. Giessen.* *Mitteilungen aus dem Mathematischen Seminar Giessen.* (Giessen)
- Mitt. Verein. Schweiz. Versich.-Math.* *Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker. Bulletin de l'Association des Actuaire Suisses.* (Bern) (Continued as: *Mitt. Verein. Schweiz. Versicherungsmath.*)
- Mitt. Verein. Schweiz. Versicherungsmath.* *Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker. Bulletin de l'Association des Actuaire Suisses.* (Bern) (Formerly: *Mitt. Verein. Schweiz. Versich.-Math.*)
- Modelirovanie Ekonom. Processov.* *Otdelenie Ekonomičeskoi Kibernetiki Ekonomičeskogo Fakul'teta Moskovskogo Gosudarstvennogo Universiteta im. M. V. Lomonosova. Modelirovanie Ekonomičeskij Processov.* (Moscow)

- Molecular Phys.* Molecular Physics. (London)
- Molod. Naučn. Rabotnik.* Erevanskij Gosudarstvennyj Universitet. Molodij Nauchnyj Rabotnik. (Erevan)
- Monatsh. Math.* Monatshefte für Mathematik. (Vienna)
- Monografias Mat.* Monografias de Matemática. (Rio de Janeiro)
- Moscow Univ. Math. Bull.* Moscow University Mathematics Bulletin. (New York)
(Translation of the mathematics section of *Vestnik Moskov. Univ. Ser. I Mat. Meh.*)
- Moscow Univ. Phys. Bull.* Moscow University Physics Bulletin. (New York)
(Translation of the physics section of *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.*)
- Moskov. Aviacion. Inst. Ordžonikidze Trudy.* Moskovskij Ordena Lenina Aviacionnyj Institut im. Sergo Ordžonikidze. Trudy. (Moscow)
- Moskov. Gos. Ped. Inst. Učen. Zap.* Moskovskij Gosudarstvennyj Pedagogičeskij Institut im. V. I. Lenina. Učenyje Zapiski. (Moscow)
- Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Šternberg.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Soobščeniya Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Gos. Univ. Trudy Gos. Astronom. Inst. Šternberg.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Trudy Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- *Moskov. Gos. Zaočn. Ped. Inst. Sb. Naučn. Trudov.* Moskovskij Gosudarstvennyj Zaočnyj Pedagogičeskij Institut. Sbornik Nauchnyh Trudov. (Moscow)
(Formerly: *Moskov. Zaočn. Ped. Inst. Učen. Zap.*)
- Moskov. Inst. Elektron. Masinostroenija—Trudy MIEM.* Moskovskij Institut Elektronnogo Masinostroenija. Trudy MIEM. (Moscow)
- Moskov. Inst. Inž. Železnodorož. Transporta Trudy.* Moskovskij Institut Inženerov Železnodorožnogo Transporta. Trudy. (Moscow)
- Moskov. Inž.-Stroitel. Inst. Sb. Trudov.* Moskovskij Inženerno-Stroitel'skij Institut im. V. V. Kuibyševa. Sbornik Trudov. (Moscow)
- Moskov. Lesotchn. Inst. Naučn. Trudy.* Moskovskij Lesotekhnicheskij Institut. Nauchnye Trudy. (Moscow)
- Moskov. Oblast. Ped. Inst. Učen. Zap.* Moskovskij Oblastnoy Pedagogičeskij Institut. Učenyje Zapiski. (Moscow)
- Moskov. Zaočn. Ped. Inst. Učen. Zap.* Moskovskij Zaočnyj Pedagogičeskij Institut. Učenyje Zapiski. (Moscow) (Continued as: *Moskov. Gos. Zaočn. Ped. Inst. Sb. Naučn.*)
- MR.* Mathematical Reviews. (Providence, R. I.)
- Muromsk. Gos. Ped. Inst. Učen. Zap.* Muromskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Vladimir)
- Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II.* Nachrichten der Akademie der Wissenschaften in Göttingen. II. Mathematisch-Physikalische Klasse. (Göttingen)
- Nachrichtentech. Elektronik.* Nachrichtentechnik. Elektronik. Technisch-wissenschaftliche Zeitschrift für die Gesamte Elektronische Nachrichtentechnik. (Berlin)
- Nadežn. i Kontrol' Kačestva.* Ežemesjačnoe Priloženie k Žurnalu Standarty i Kačestvo Gosudarstvennyj Komitet Standartov Soveta Ministrov SSR. Nadežnost' i Kontrol' Kačestva. (Moscow)
- Nagoya Math. J.* Nagoya Mathematical Journal. (Nagoya)
- Nanta Math.* Nanyang University. Nanta Mathematica. (Singapore)
- Nanyang Univ. J. Part I.* Nanyang University Journal. Part I. Natural Sciences. (Singapore) (Continued as: *Nanyang Univ. J. Part III*)
- Nanyang Univ. J. Part III.* Nanyang Univ. J. Part III. Natural Sciences. (Singapore) (Formerly: *Nanyang Univ. J. Part I*)
- Natur. Sci. Rep. Ochanomizu Univ.* Natural Science Report of the Ochanomizu University. (Tokyo)
- Naučn.-Issled. i Proekt. Inst. Mehanizacii i Avtomatizacii Upravlenija Proizv. v Avtomobil. Promyšl. (NIUAVTOPROM) Trudy.* Naučno-Issledovatel'skij i Proektnyj Institut Mehanizacii i Avtomatizacii Upravlenija Proizvodstvom v Avtomobil'noj Promyšlennosti (NIUAVTOPROM). Trudy Instituta. (Gorki)
- Naučn.-Tehn. Informacija (VINITI) Ser. 2. Informacionnye Processy i Sistemy.* Akademija Nauk SSSR. Vsesojuznyj Institut Naučnoi i Tehničeskoj Informacii. Naučno-Tekhnicheskaja Informacija. Seriya 2. Informacionnye Processy i Sistemy. (Moscow) (Translated as: *Automat. Document. and Math. Linguist.*)
- Naval Res. Logist. Quart.* Naval Research Logistics Quarterly. (Washington, D. C.)
- NEC Res. Development.* NEC Research and Development (Technical Journal of Nippon Electric Co., Ltd.). (Tokyo)
- Nederl. Akad. Wetensch. Indag. Math.* Koninklijke Nederlandse Akademie van Wetenschappen. Indagationes Mathematicae ex Actis Quibus Titulus. Proceedings of the Section of Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Proc. Ser. A*)
- Nederl. Akad. Wetensch. Proc. Ser. A.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Indag. Math.*)
- Nederl. Akad. Wetensch. Proc. Ser. B.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam)
- Nederl. Akad. Wetensch. Verslag Afd. Natuurk.* Koninklijke Nederlandse Akademie van Wetenschappen. Verslag van de Gewone Vergadering van de Afdeling Natuurkunde. (Amsterdam)
- Networks.* Networks. An International Journal. (New York)
- New Zealand Math. Mag.* The New Zealand Mathematics Magazine. (Auckland)
- New Zealand Oper. Res.* New Zealand Operational Research. (Wellington)
- Nieuw Arch. Wisk.* Nieuw Archief voor Wiskunde. (Groningen)
- *Nieuw Tijdschr. Wisk.* Nieuw Tijdschrift voor Wiskunde. (Groningen)
- Nigerian J. Sci.* University of Ibadan. Nigerian Journal of Science. (Ibadan)
- Nordisk Mat. Tidskr.* Nordisk Matematisk Tidsskrift. (Oslo)
- Nordisk Tidskr. Informationsbehandling (BIT).* Nordisk Tidsskrift for Informationsbehandling. (Copenhagen)
- Norske Vid. Selsk. Forh. (Trondheim).* Det Kongelige Norske Videnskabers Selskabs Forhandlinger. (Trondheim)
- Norske Vid. Selsk. Skr. (Trondheim).* Det Kongelige Norske Videnskabers Selskabs Skrifter. (Trondheim)
- Notes and Records Roy. Soc. London.* Notes and Records of the Royal Society of London. (London)
- Notices Amer. Math. Soc.* Notices of the American Mathematical Society. (Providence, R. I.)
- Notre Dame J. Formal Logic.* Notre Dame Journal of Formal Logic. (Notre Dame, Ind.)
- Noûs.* Noûs. (Bloomington, Ind.)
- Nova Acta Leopoldina (N.F.).* Nova Acta Leopoldina. Abhandlungen der Deutschen Akademie der Naturforscher Leopoldina. Neue Folge. (Leipzig)
- Novgorod. Golovn. Gos. Ped. Inst. Učen. Zap.* Novgorodskij Golovnoj Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Novgorod)
- Novosibirsk. Gos. Ped. Inst. Naučn. Trudy.* Novosibirskij Gosudarstvennyj Pedagogičeskij Institut. Nauchnye Trudy. (Novosibirsk)
- NTM Schr. Geschichte Naturwiss. Tech. Medizin.* NTM Schriftenreihe für Geschichte der Naturwissenschaften Technik und Medizin. (Leipzig)
- Nuclear Phys. A.* Nuclear Physics. A. (Amsterdam)
- Nuclear Phys. B.* Nuclear Physics. B. (Amsterdam)
- Numer. Math.* Numerische Mathematik. (Berlin)
- Nuovo Cimento A.* Il Nuovo Cimento. A. (Bologna)
- Nuovo Cimento B.* Il Nuovo Cimento. B. (Bologna)
- Obs. Astronom. Univ. Nac. La Plata Ser. Astronom.* Observatorio Astronomico de la Universidad Nacional de La Plata. Serie Astronomica. (La Plata)
- Obzornik Mat. Fiz.* Društvo Matematikov, Fizikov in Astronomov SRS. Obzornik za Matematiko in Fiziko. (Ljubljana)
- *Omsk. Inst. Inž. Železnodorož. Transporta Naučn. Trudy.* Omskij Institut Inženerov Železnodorožnogo Transporta. Nauchnye Trudy. (Omsk)
- Operational Res. Quart.* Operational Research Quarterly. (Bristol)
- Operations Res.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.) (Sometimes abbreviated as *OR* in *Math. Reviews*)
- Opsearch.* Opsearch. The Journal of the Operational Research Society of India. (Delhi)
- Optica Acta.* Optica Acta. (London)
- Optimal. Planirovanie.* Optimal'noe Planirovanie. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. (Novosibirsk)
- Optimizacija.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Optimizacija. (Novosibirsk)
- OR.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.)

- Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* Orehovo-Zuevskii Pedagogičeskii Institut. Učeny Zapiski Kafedry Matematiki. (Moscow)
- Orenburg. Gos. Ped. Inst. Učen. Zap.* Orenburgskii Gosudarstvennyi Pedagogičeskii Institut im. V. P. Okalova. Učeny Zapiski. (Chelyabinsk)
- Organon.* Organon. Institut d'Histoire de la Science et de la Technique auprès de l'Académie Polonaise des Sciences. (Warsaw)
- Orlov. Gos. Ped. Inst. Učen. Zap.* Orlovskii Gosudarstvennyi Pedagogičeskii Institut. Učeny Zapiski. (Orel)
- Orsk. Gos. Ped. Inst. Učen. Zap.* Orskii Gosudarstvennyi Pedagogičeskii Institut im. T. G. Ševčenko. Učeny Zapiski. (Orsk)
- Osaka J. Math.* Osaka Journal of Mathematics. (Osaka)
- Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meteorologie und Technik. (Vienna)
- Otbor i Peredača Informacii.* Otbor i Peredača Informacii. Akademija Nauk Ukrainkoj SSR. Fiziko-Mehaničeskii Institut. (Kiev)
- Oxford Bull. Econom. Statist.* Oxford Bulletin of Economics and Statistics. (Oxford)
- PA.* Science Abstracts. Physics Abstracts. (London)
- Pacific J. Math.* Pacific Journal of Mathematics. (Berkeley, Calif.)
- Papers and Proc. Roy. Soc. Tasmania.* Papers and Proceedings of the Royal Society of Tasmania. (Hobart)
- Pattern Recognition.* The Journal of the Pattern Recognition Society. (New York)
- Penz. Ped. Inst. Učen. Zap.* Penzenskii Pedagogičeskii Institut im. V. G. Belinskogo. Učeny Zapiski. (Penza)
- Penz. Politehn. Inst. Učen. Zap. Mat. Meh.* Penzenskii Politehničeskii Institut. Matematika i Mehaniika. Učeny Zapiski. (Penza)
- Period. Mat.* Periodico di Matematiche. (Bologna)
- Period. Math. Hungar.* Periodica Mathematica Hungarica. Journal of the János Bolyai Mathematical Society. (Budapest)
- Perm. Gos. Ped. Inst. Učen. Zap.* Permskii Gosudarstvennyi Pedagogičeskii Institut. Učeny Zapiski. (Perm)
- Perm. Gos. Univ. Učen. Zap.* Permskii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Učeny Zapiski. (Perm)
- Perm. Politehn. Inst. Sb. Naučn. Trudov.* Permskii Politehničeskii Institut. Sbornik Naučnyh Trudov. (Perm)
- *Petrozavodsk. Gos. Univ. Učen. Zap.* Petrozavodskii Gosudarstvennyi Universitet. Učeny Zapiski. (Petrozavodsk)
- Philips Res. Rep.* Philips Research Reports. (Eindhoven)
- Philips Res. Rep. Suppl.* Philips Research Reports. Supplements. (Eindhoven)
- Philos. Forum Quart.* The Philosophical Forum. A Quarterly. (Boston, Mass.)
- Philos. Math.* Philosophia Mathematica. An International Journal for Philosophy of Modern Mathematics. (Hauppauge, N. Y.)
- Philos. Natur.* Philosophia Naturalis. Archiv für Naturphilosophie und die Philosophischen Grenzgebiete der Exakten Wissenschaften und Wissenschaftsgeschichte. (Meisenheim-Glan)
- Philos. Quart.* The Philosophical Quarterly. (Edinburgh)
- Philos. Sci.* Philosophy of Science. (Baltimore, Md.)
- Philos. Studia.* Philosophical Studies. (Dordrecht)
- Philos. Trans. Roy. Soc. London Ser. A.* Philosophical Transactions of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London)
- Phys. A. Physica.* A. Europhysics Journal. (Amsterdam) (Formerly: *Physica*)
- *Phys. B + C. Physica B + C.* Europhysics Journal. B: Low Temperature and Solid State Physics. C: Atomic, Molecular and Plasma Physics Optics. (Amsterdam) (Formerly: *Physica*)
- Phys. Fluids.* The Physics of Fluids. (New York)
- Phys. Lett. A.* Physics Letters. A. (Amsterdam)
- Phys. Lett. B.* Physics Letters. B. (Amsterdam)
- Phys. Norveg.* Physica Norvegica. (Oslo)
- Phys. Rep.* Physics Reports. Section C of *Physics Letters*. (Amsterdam)
- Phys. Rep. Kumamoto Univ.* Physics Reports of the Kumamoto University. (Kumamoto)
- Phys. Rev. A.* Physical Review. A. General Physics. (New York)
- Phys. Rev. B.* Physical Review. B. Solid State. (New York)
- Phys. Rev. C.* Physical Review. C. Nuclear Physics. (New York)
- Phys. Rev. D.* Physical Review. D. Particles and Fields. (New York)
- Phys. Rev. Lett.* Physical Review Letters. (New York)
- Phys. Scripta.* Physica Scripta. (Stockholm)
- Phys. Status Solidi (B).* Physica Status Solidi. B. Basic Research. (Berlin)
- Physica.* Physica. (Amsterdam) (Continued as: *Phys. A* and *Phys. B + C*)
- Physics Abstracts.* Science Abstracts. Physics Abstracts. (London) (Usually abbreviated *PA* in the text of *Math. Reviews*)
- Phys.-Riv. Internaz. Storia Sci.* Physis. Rivista Internazionale di Storia della Scienza. (Florence)
- Pl Mu Epsilon J.* Pl Mu Epsilon Journal. (Norman, Okla.)
- Plovdiv. Univ. Naučn. Trud.* Plovdivskii Universitet. Naučni Trudove. (Plovdiv)
- Podstawy Sterowania.* Podstawy Sterowania. Polska Akademia Nauk. Centrum Badań Naukowych w Woj. Katowickim. Zakład Systemów Automatyki Kompleksowej. (Gliwice)
- Pokroky Mat. Fyz. Astronom.* Jednota Československých Matematiků a Fyziku. Pokroky Matematiky, Fyziky a Astronomie. (Prague)
- Polish Acad. Sci. Inst. Philos. Sociol. Bull. Sect. Logic.* Polish Academy of Sciences. Institute of Philosophy and Sociology. Bulletin of the Section of Logic. (Wrocław)
- Polska Biblio. Analit. Mech.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Polska Bibliografia Analityczna. Mechanika. Polish Scientific Abstracts. Mechanics. (Warsaw)
- Portugal. Math.* Portugaliae Mathematica. (Lisbon)
- Portugal. Phys.* Portugaliae Physica. (Lisbon)
- Poste Telecomun.* Poste e Telecomunicazioni nello Sviluppo della Società. (Rome)
- Prace Inst. Automat. PAN.* Instytut Automatyki Polskiej Akademii Nauk. Prace. (Warsaw)
- Prace Inst. Maszyn Przepływowych.* Prace Instytutu Maszyn Przepływowych. Transactions of the Institute of Fluid-Flow Machinery. (Warsaw)
- Prace Nauk. Inst. Mat. Fiz. Teoret. Politechn. Wrocław. Ser. Monograf.* Prace Naukowe Instytutu Matematyki i Fizyki Teoretycznej Politechniki Wrocławskiej. Seria Monografie. (Wrocław)
- Prace Nauk. Inst. Mat. Fiz. Teoret. Politechn. Wrocław. Ser. Studia i Materiały.* Prace Naukowe Instytutu Matematyki i Fizyki Teoretycznej Politechniki Wrocławskiej. Seria Studia i Materiały. (Wrocław) (Continued as: *Prace Nauk. Inst. Mat. Politechn. Wrocław. Ser. Studia i Materiały*)
- *Prace Nauk. Inst. Mat. Politechn. Wrocław. Ser. Stud. i Materiały.* Politechniki Wrocławskiej. Instytutu Matematyki. Prace Naukowe. Seria Studia i Materiały. (Wrocław) (Formerly: *Prace Nauk. Inst. Mat. Fiz. Teoret. Politechn. Wrocław. Ser. Studia i Materiały*)
- Prakt. Akad. Athēnōn.* Πρακτικὰ τῆς Ἀκαδημίας Ἀθηνῶν. Praktika tēs Akadēmias Athēnōn. (Athens)
- Praxis Math.* Praxis der Mathematik. (Cologne)
- Priblž. Metod. Rešen. Differencial'. Unaven.* Približennye Metody Rešenija Differencial'nyh Uravnenij. (Kiev)
- Pribory i Sistemy Avtomat.* Pribory i Sistemy Avtomatiki. (Kharkov)
- Pribory i Sistemy Upravljenija.* Pribory i Sistemy Upravljenija. (Moscow)
- Prikl. Mat. i Programirovanie.* Akademija Nauk Moldavskoï SSR. Institut Matematiki s Vyčislitel'nym Centrom. Prikladnaja Matematika i Programirovanie. (Kishinev)
- Prikl. Mat. Meh.* Akademija Nauk SSSR. Otdelenie Tehničeskijh Nauk. Institut Mehaniki. Prikladnaja Matematika i Mehaniika. (Moscow) (Translated as: *J. Appl. Math. Mech.*)
- Prikl. Meh.* Akademija Nauk Ukrainkoï SSR. Otdelenie Matematiki, Mehaniki i Kibernetiki. Prikladnaja Mehaniika. (Kiev) (Translated as: *Soviet Appl. Mech.*)
- Primenen. Mat. Ekonom.* Leningradskii Ordena Lenina Gosudarstvennyi Universitet im. A. A. Ždanova. Kafedra i Laboratorija Ekonomiko-Matematičeskijh Metodov. Primenenie Matematiki v Ekonomike. (Leningrad)
- Primenen. Metodov Vyčisl. Mat. i EVM v Tehn.-Ekonom. Račet.* Kazanskii Gosudarstvennyi Universitet im. V. I. Ul'janova-Lenina. Trudy Vyčislitel'nogo Centra. Primenenie Metodov Vyčislitel'noj Matematiki i EVM v Tehniko-Ekonomičeskijh Račetah. (Kazan)
- Primenen. Metodov Vyčisl. Mat. i Vyčisl. Tehn. dlja Rešenija Naučno-Issled. i Narodnohožajstv. Zadač.* Vyčislitel'nyj Centr Voronežskogo Gosudarstvennogo Universiteta im. Leninskogo Komsomola. Primenenie Metodov Vyčislitel'noj Matematiki i Vyčislitel'noj Tehniki dlja Rešenija Naučno-Issledovatel'skijh i Narodnohožajstvennyh Zadač. (Voronezh)

- Prirod.-Mat. Fak. Univ. Kiril i Metodij Skopje Godišen Zb.* Prirodno-Matematička Fakultet na Univerzitetu Kiril i Metodij Skopje. Godišen Zbornik. (Skopje)
- Probleme der Kybernetik.* Probleme der Kybernetik. (Berlin) (Translation of *Problemy Kibernet.*)
- Problems of Control and Information Theory/Problemy Upravljenija i Teorii Informacii.* Problems of Control and Information Theory. Problemy Upravljenija i Teorii Informacii. (Budapest)
- Problems of Information Transmission.* Problems of Information Transmission. (New York) (Translation of *Problemy Peredači Informacii*)
- Problemy Kibernet.* Problemy Kibernetiki. (Moscow)
- Problemy Mat. Anal. Slož. Sistem.* Voronežskij Gosudarstvennyj Universitet. Problemy Matematičeskogo Analiza Složnyh Sistem. (Voronezh)
- Problemy Peredači Informacii.* Akademija Nauk SSSR. Institut Problem Peredači Informacii Akademii Nauk SSSR. Problemy Peredači Informacii. (Moscow) (Translated as: *Problems of Information Transmission*)
- Proc. Amer. Math. Soc.* Proceedings of the American Mathematical Society. (Providence, R. I.)
- *Proc. Arkansas Acad. Sci.* Arkansas Academy of Science. Proceedings. (Fayetteville, Ark.)
- Proc. Edinburgh Math. Soc.* Proceedings of the Edinburgh Mathematical Society. (Edinburgh) (Contains *Proc. Edinburgh Math. Soc. Edinburgh Math. Notes*)
- Proc. Edinburgh Math. Soc. Edinburgh Math. Notes.* Proceedings of the Edinburgh Mathematical Society. Edinburgh Mathematical Notes. (Edinburgh) (Included in *Proc. Edinburgh Math. Soc.*)
- Proc. Fac. Sci. Tokai Univ.* Proceedings of the Faculty of Science of Tokai University. (Tokyo)
- Proc. IEEE.* Institute of Electrical and Electronics Engineers. Proceedings. (New York)
- Proc. Indian Acad. Sci. Sect. A.* Proceedings of the Indian Academy of Sciences. Section A. (Bangalore)
- Proc. Indian Nat. Sci. Acad. Part A.* Proceedings of the Indian National Science Academy. Part A. Physical Sciences. (New Delhi)
- Proc. Inst. Elec. Engrs.* Proceedings of the Institution of Electrical Engineers. Electronics. Power. Control & Science. (London)
- Proc. Inst. Statist. Math.* The Proceedings of the Institute of Statistical Mathematics. (Tokyo)
- Proc. Iowa Acad. Sci.* Proceedings of the Iowa Academy of Science. (Des Moines, Iowa)
- Proc. IREE.* Proceedings. The Institution of Radio and Electronics Engineers of Australia. (Sydney)
- Proc. Japan Acad.* Proceedings of the Japan Academy. (Tokyo)
- Proc. London Math. Soc.* Proceedings of the London Mathematical Society. (London)
- Proc. Math. Phys. Soc. A.R.E.* Proceedings of the Mathematical and Physical Society of A.R.E. (Cairo) (Continued as: *Proc. Math. Phys. Soc. Egypt*)
- Proc. Math. Phys. Soc. Egypt.* Proceedings of the Mathematical and Physical Society. (Cairo) (Formerly: *Proc. Math. Phys. Soc. A.R.E.*)
- Proc. Nat. Acad. Sci. India Sect. A.* Proceedings of the National Academy of Sciences, India. Section A. (Allahabad)
- Proc. Nat. Acad. Sci. U.S.A.* Proceedings of the National Academy of Sciences of the United States of America. (Washington, D. C.)
- Proc. Pakistan Statist. Assoc.* Proceedings of the Pakistan Statistical Association. (Lahore)
- Proc. Rajasthan Acad. Sci.* The Proceedings of the Rajasthan Academy of Sciences. (Pilani)
- Proc. Roy. Irish Acad. Sect. A.* Proceedings of the Royal Irish Academy. Section A. (Dublin)
- Proc. Roy. Soc. Edinburgh Sect. A.* Proceedings of the Royal Society of Edinburgh. Section A. Mathematical and Physical Sciences. (Edinburgh)
- Proc. Roy. Soc. London Ser. A.* Proceedings of the Royal Society. London. Series A. Mathematical and Physical Sciences. (London) (May also appear as: *Proc. Roy. Soc. Ser. A*)
- Proc. Roy. Soc. Ser. A.* Proceedings of the Royal Society. Series A. Mathematical and Physical Sciences. (London) (May also appear as: *Proc. Roy. Soc. London Ser. A*)
- Proc. Steklov Inst. Math.* Proceedings of the Steklov Institute of Mathematics. (Providence, R. I.) (Translation of *Trudy Mat. Inst. Steklov.*)
- Proc. (Trudy) P. N. Lebedev Phys. Inst.* Proceedings (Trudy) of the P. N. Lebedev Physics Institute. (New York) (Translation of *Trudy Fiz. Inst. Lebedev.*)
- Proc. Vibration Problems.* Polish Academy of Sciences. Institute of Fundamental Technological Research. Proceedings of Vibration Problems. (Warsaw) (Continued as: *J. Tech. Phys.*)
- Proc. West Virginia Acad. Sci.* West Virginia University Bulletin. West Virginia Academy of Science. Proceedings. (Morgantown, W. Va.)
- Processy Optimal. Upravljenija Trudy Sem. I Sekcija. (Vilnius)* See *Differencialnyye Uravnenija i Primenen.*—*Trudy Sem. Processy Optimal. Upravljenija I Sekcija.*
- Processy Optimal. Upravljenija Trudy Sem. II Sekcija. (Vilnius)* See *Mat. Metody v Social. Nauk.*—*Trudy Sem. Processy Optimal. Upravljenija II Sekcija.*
- Processy Optimal. Upravljenija Trudy Sem. V Sekcija. (Vilnius)* See *Statist. Problemy Upravljenija*—*Trudy Sem. Processy Optimal. Upravljenija V Sekcija.*
- Progr. Math.* See *Shuxue Jinzhan.*
- Progr. Math. (Allahabad).* Academy for Progress of Mathematics of the University of Allahabad. Progress of Mathematics. (Allahabad)
- Progr. Theoret. Phys.* Progress of Theoretical Physics. (Kyoto)
- Przegląd Statyst.* Polska Akademia Nauk. Komitet Statystyki i Ekonometrii. Przegląd Statystyczny. (Warsaw)
- Pskov. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap.* Ministerstvo Prosvěšćenija RSFSR. Pskovskij Pedagogičeskij Institut. Fiziko-Matematičeskij Fakul'tet. Učenyje Zapiski. (Pskov)
- Psychometrika.* Psychometrika. A Journal Devoted to the Development of Psychology as a Quantitative Rational Science. (Chicago, Ill.)
- Pubbl. IAC.* Istituto per le Applicazioni del Calcolo del Consiglio Nazionale delle Ricerche. Pubblicazioni. (Rome)
- Publ. Centre Rech. Math. Pures.* Publications du Centre de Recherches en Mathématiques Pures. (Neuchâtel) (Formerly: *Publ. Sem. Géom. Univ. Neuchâtel Sér. 1*)
- Publ. Dép. Math. (Lyon).* Publications du Département de Mathématiques. Faculté des Sciences de Lyon. (Lyon)
- Publ. Dept. Math. (Ljubljana).* University of Ljubljana. Institute of Mathematics, Physics and Mechanics. Publications of the Department of Mathematics. (Ljubljana)
- Publ. Économétriques.* Publications Économétriques. (Paris)
- Publ. Inst. Math. (Beograd).* Institut Mathématique. Publications. Nouvelle Série. (Belgrade)
- Publ. Inst. Statist. Univ. Paris.* Publications de l'Institut de Statistique de l'Université de Paris. (Paris)
- Publ. Math. Debrecen.* Universitatis Debreceniensis. Institutum Mathematicum. Publicationes Mathematicae. (Debrecen)
- *Publ. Math. Univ. Bordeaux.* Université de Bordeaux. Publications Mathématiques. (Talence)
- Publ. Ramanujan Inst.* Publications of the Ramanujan Institute. (Madras)
- Publ. Res. Inst. Math. Sci.* Kyoto University. Research Institute for Mathematical Sciences. Publications. (Kyoto)
- Publ. Sém. Géom. Univ. Neuchâtel Sér. 1.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. Série 1. (Neuchâtel) (Continued as: *Publ. Centre Rech. Math. Pures*)
- Publ. Sém. Géom. Univ. Neuchâtel Sér. 2.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. Série 2. (Neuchâtel)
- Publ. Sém. Géom. Univ. Neuchâtel Sér. 3.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. Série 3. (Neuchâtel)
- Punjab Univ. J. Math. (Lahore).* Punjab University. Journal of Mathematics. (Lahore)
- Pure Appl. Math. Sci.* Pure and Applied Matematika Sciences. (Saharanpur)
- Quart. Appl. Math.* Quarterly of Applied Mathematics. (Providence, R. I.)
- Quart. J. Math. Oxford Ser.* The Quarterly Journal of Mathematics. Oxford. Second Series. (Oxford)
- Quart. J. Mech. Appl. Math.* The Quarterly Journal of Mechanics and Applied Mathematics. (Oxford)
- Rad Jugoslav. Akad. Znan. Umjet.* Rad Jugoslavske Akademije Znanosti i Umjetnosti. (Zagreb)
- Radio Engrg. Electron. Phys.* Radio Engineering and Electronic Physics. Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication. (New York) (Translation of *Radiotekhn. i Elektron.*)

- Radio Sci.* Radio Science. (Washington, D. C.)
- Radiophys. and Quantum Electronics.* Radiophysics and Quantum Electronics. A translation of the *Izvestiya Vysish Uchebnykh Zavedenii Radiofizika* of the Ministry of Higher Education of the USSR. (New York) (Translation of *Izv. Vys. Uchebn. Zaved. Radiofizika*)
- Radiotekh. (Har'kov).* Har'kovskii Ordena Trudovogo Krasnogo Znamen Gosudarstvennyi Universitet im. A. M. Gor'kogo. Radiotekhnika. (Kharkov)
- Radiotekh. i Elektron.* Akademiya Nauk SSSR. Radiotekhnika i Elektronika. (Moscow) (Translated as: *Radio Engng. Electron. Phys.*)
- Rajasthan Univ. Studies Statist.* Rajasthan University Studies in Statistics. Science Series. (Rajasthan)
- Ranchi Univ. Math. J.* Ranchi University Mathematical Journal. (Ranchi)
- Ratio.* Ratio. (Oxford)
- RCA Rev.* RCA Review. (Princeton, N. J.)
- Recherche Aérospat.* La Recherche Aérospatiale. (Châtillon)
- Regelungstech.* Regelungstechnik. Zeitschrift für Steuerung, Regelung und Prozeßdatenverarbeitung. (Munich)
- Rend. Accad. Sci. Fis. Mat. Napoli.* Società Nazionale di Scienze, Lettere ed Arti in Napoli. Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche. (Naples)
- Rend. Circ. Mat. Palermo.* Rendiconti del Circolo Matematico di Palermo. (Palermo)
- Rend. Ist. Mat. Univ. Trieste.* Rendiconti dell'Istituto di Matematica dell'Università di Trieste. (Trieste)
- Rend. Mat.* Rendiconti di Matematica. Università degli Studi di Roma. Istituto Matematico Guido Castelnuovo. Istituto di Matematica Applicata. Istituto Nazionale di Alta Matematica. (Rome)
- Rend. Sem. Fac. Sci. Univ. Cagliari.* Rendiconti del Seminario della Facoltà di Scienze della Università di Cagliari. (Cagliari)
- Rend. Sem. Mat. Fis. Milano.* Rendiconti del Seminario Matematico e Fisico di Milano. (Milan)
- Rend. Sem. Mat. Messina.* Rendiconti del Seminario Matematico di Messina. (Messina)
- Rend. Sem. Mat. Univ. e Politec. Torino.* Rendiconti del Seminario Matematico (già "Conferenze di Fisica e di Matematica") Università e Politecnico di Torino. (Torino)
- Rend. Sem. Mat. Univ. Padova.* Rendiconti del Seminario Matematico dell'Università di Padova. (Padua)
- Rep. Comput. Centre Univ. Tokyo.* Report of the Computer Centre. University of Tokyo. (Tokyo)
- Rep. Fac. Sci. Engrg. Saga Univ. Math.* Reports of the Faculty of Science and Engineering. Saga University. Mathematics. (Saga)
- Rep. Fac. Sci. Kagoshima Univ.* Reports of the Faculty of Science of Kagoshima University. (Kagoshima)
- Rep. Fac. Sci. Shizuoka Univ.* Reports of the Faculty of Science. Shizuoka University. (Shizuoka)
- *Rep. Inst. High Speed Mech. Tôhoku Univ.* Tôhoku University. Institute of High Speed Mechanics. Reports. (Sendai)
- Rep. Math. Logic.* Reports on Mathematical Logic. (Katowice)
- Rep. Mathematical Phys.* Reports on Mathematical Physics. (Amsterdam)
- Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* Reports of Statistical Application Research. Union of Japanese Scientists and Engineers. (Tokyo)
- Rep. Univ. Electro-Commun.* Reports of the University of Electro-Communications. (Tokyo)
- Repúb. Venezuela Bol. Acad. Ci. Fis. Mat. Natur.* República de Venezuela. Boletín de la Academia de Ciencias Físicas, Matemáticas y Naturales. (Caracas)
- Res. Bull. Fac. Ed. Oita Univ.* The Research Bulletin of the Faculty of Education. Oita University. (Oita)
- Res. Bull. Panjab Univ.* Research Bulletin of the Panjab University. (Chandigarh)
- Res. Inst. Fund. Information Sci. Res. Rep.* Kyushu University. Research Institute of Fundamental Information Science. Research Report. (Fukuoka)
- Res. Notes Memoranda Appl. Geom. Post-RAAG.* Research Association of Applied Geometry. Research Notes and Memoranda of Applied Geometry in Post-RAAG. (Tokyo)
- Res. Rep. Anan Tech. College.* Research Reports of the Anan Technical College. (Anan)
- Res. Rep. Kushiro Tech. College.* Research Reports. Kushiro Technical College. (Hokkaido)
- Res. Rep. Nagaoka Tech. College.* Research Reports of the Nagaoka Technical College. (Nagaoka)
- Res. Rep. Tokyo Electrical Engrg. College.* Research Reports of Tokyo Electrical Engineering College. (Tokyo)
- RETE.* RETE. Strukturgeschichte der Naturwissenschaften. (Hildesheim)
- Rev. Acad. Ci. Madrid.* Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. (Madrid) (Continued as: *Rev. Real Acad. Ci. Exact. Fis. Natur.*)
- Rev. Acad. Ci. Zaragoza.* Revista de la Academia de Ciencias Exactas, Físico-Químicas y Naturales de Zaragoza. (Zaragoza)
- Rev. Anal. Numér. Teoria Aproximației.* Revista de Analiză Numerică și Teoria Aproximației. (Cluj)
- Rev. Anal. Numér. Théorie Approximation.* Revue d'Analyse Numérique et de la Théorie de l'Approximation. (Cluj)
- Rev. Bio-Math.* Revue de Bio-Mathématique. (Antony)
- Rev. CETHEDec.* Revue du Centre d'Études Théoriques de la Détection et des Communications. (Paris)
- Rev. Ci. (Lima).* Revista de Ciencias. (Lima)
- Rev. Ci. Mat. Univ. Lourenço Marques Sér. A.* Revista de Ciências Matemáticas. Universidade de Lourenço Marques. Série A. (Lourenço Marques)
- Rev. Ci. Mat. Univ. Lourenço Marques Sér. B.* Revista de Ciências Matemáticas. Universidade de Lourenço Marques. Série B. (Lourenço Marques)
- Rev. Colombiana Mat.* Revista Colombiana de Matemáticas. (Bogotá)
- Rev. Econom. Statist.* The Review of Economics and Statistics. (Cambridge, Mass.)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Bleue.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Bleue. (Paris)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Jaune.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Jaune. (Paris)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Rouge. (Paris) (Continued as: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Anal. Numér.* and *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Informat. Théor.*)
- *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Anal. Numér.* Revue Française d'Automatique Informatique et Recherche Opérationnelle Série Rouge. Analyse Numérique. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge*)
- *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Informat. Théor.* Revue Française d'Automatique Informatique et Recherche Opérationnelle Série Rouge. Informatique Théorique. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge*)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Verte.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Verte. (Paris)
- Rev. Histoire Sci. Appl.* Revue d'Histoire des Sciences et de leurs Applications. (Paris)
- Rev. Internat. Philos.* Revue Internationale de Philosophie. (Wetteren)
- Rev. Mat. Hisp.-Amer.* Revista Matemática Hispano-Americana. (Madrid)
- Rev. Mexicana Fis.* Revista Mexicana de Física. (Mexico City)
- Rev. Modern Phys.* Reviews of Modern Physics. (New York)
- Rev. Questions Sci.* Revue des Questions Scientifiques. (Louvain)
- *Rev. Real Acad. Ci. Exact. Fis. Natur. Madrid.* Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. Revista. (Madrid) (Formerly: *Rev. Acad. Madrid*)
- Rev. Roumaine Math. Pures Appl.* Académie de la République Populaire Roumaine. Revue Roumaine de Mathématiques Pures et Appliquées. (Bucharest)
- Rev. Roumaine Phys.* Revue Roumaine de Physique. (Bucharest)
- Rev. Roumaine Sci. Tech. Sér. Électrotech. Énergét.* Revue Roumaine des Sciences Techniques. Série Électrotechnique et Énergétique. (Bucharest)
- Rev. Roumaine Sci. Tech. Sér. Méc. Appl.* Revue Roumaine des Sciences Techniques. Série de Mécanique Appliquée. (Bucharest)
- Rev. Statist. Appl.* Revue de Statistique Appliquée. Centre d'Enseignement et de Recherche de Statistique Appliquée. (Paris)
- Rev. Tech. Thomson-CSF.* Revue Technique Thomson-CSF. (Paris)
- Rev. Un. Mat. Argentina.* Revista de la Unión Matemática Argentina. (Buenos Aires)

- Rice Univ. Studies.* Rice University Studies. (Houston, Tex.)
- Ricerca (Napoli).* La Ricerca. Rivista di Matematica Pure ed Applicate. (Naples)
- Ricerche Mat.* Ricerche di Matematica. (Naples)
- Rīgas Politehn. Inst. Zināt. Raksti.* Rīgas Politehniskais Institūts. Rīzskā Politehniskā Institūta. Učēnye Zapiski. Rīgas Politehniskais Institūts Zinātniskie Raksti. (Riga)
- Riv. Mat. Univ. Parma.* Rivista di Matematica della Università di Parma. (Parma)
- Riv. Nuovo Cimento.* Rivista del Nuovo Cimento. (Bologna)
- Rīžsk. Inst. Inž. Graždan. Aviacij.* Rīžskā Institūta Inženieru Graždanskoj Aviacij im. Leninskogo Komsomola. (Riga)
- Rjazansk. Gos. Ped. Inst. Učen. Zap.* Rjazanskij Gosudarstvennyj Pedagogičeskij Institut. Učēnye Zapiski. (Ryazan)
- Rocky Mountain J. Math.* The Rocky Mountain Journal of Mathematics. (Missoula, Mont.)
- Rostov-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap.* Rostovskij-na-Donu Gosudarstvennyj Pedagogičeskij Institut. Fiziko-Matematičeskij Fakultet. Učēnye Zapiski. (Rostov-on-Don)
- Rostov-na-Donu Gos. Univ. Učen. Zap.* Rostovskij-na-Donu Gosudarstvennyj Universitet. Učēnye Zapiski. (Rostov-on-Don)
- Rozprawy Československé Akad. Věd Řada Mat. Přirod. Věd.* Rozprawy Československé Akademie Věd Řada Matematických a Přírodních Věd. (Prague)
- Rozprawy Elektrotech.* Polska Akademia Nauk. Instytut Technologii Elektronowej. Rozprawy Elektrotechniczne. (Warsaw)
- Rozprawy Inż.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Rozprawy Inżynierskie. (Warsaw)
- Rozprawy Politech. Poznań.* Politechnika Poznańska. Rozprawy. (Poznań)
- RSB Ėkonom. Promyšl. D.* Akademija Nauk SSSR. Vsesojuznyj Institut Naučnoj i Tehničeskoj Informacii. Referativnyj Sbornik. Ėkonomika Promyšlennosti. D. Primenenie Matematičeskich Metodov v Ėkonomičeskich Issledovanijah i Planirovanii. (Moscow)
- Russian Math. Surveys.* Russian Mathematical Surveys. A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskich Nauk*. (London) (Translation of *Uspehi Mat. Nauk*)
- RŽAvtomat. Telemek. i Vyčisl. Tehn.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. (Moscow)
- RŽFiz.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Fizika. (Moscow)
- RŽKibernet.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Kibernetika. (Moscow)
- RŽMat.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Matematika. (Moscow)
- RŽMeh.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Mehanika. (Moscow)
- Sakharth. SSR Mecn. Akad. Gamotvhl. Centr. Šrom.* Sakharthvelos SSR Mecnierebatha Akademis Gamotvhlithi Centris Šromebi. (Tbilisi) (Also listed as: *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR*)
- Sakharth. SSR Mecn. Akad. Marthw. Sistem. Inst. Šrom.* Sakharthvelos SSR Mecnierebatha Akademia. Marthwis Sistemebis Instituti Šromebi. (Tbilisi) (Also listed as: *Trudy Inst. Sistem Upravlenija Akad. Nauk Gruzin. SSR*)
- Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.* Sakharthvelos SSR Mecnierebatha Akademia A. Razmadzis Sahelobis Tbiliss Matematikis Institutis. Šromebei. (Tbilisi) (Also listed as: *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze*)
- Sakharth. SSR Mecn. Akad. Moambe.* Sakharthvelos SSR Mecnierebatha Akademis Moambe. (Tbilisi) (Also listed as: *Soobšč. Akad. Nauk Gruzin. SSR*)
- Sankhyā Ser. A.* Sankhyā (Statistics). The Indian Journal of Statistics. Series A. (Calcutta)
- Sankhyā Ser. B.* Sankhyā (Statistics). The Indian Journal of Statistics. Series B. (Calcutta)
- Saratov. Gos. Ped. Inst. Učen. Zap.* Saratovskij Gosudarstvennyj Pedagogičeskij Institut. Učēnye Zapiski. (Saratov)
- S.-B. Heidelberger Akad. Wiss. Math.-Natur. Kl.* Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg) (Continued as: *Sitzungsber. Heidelb. Akad. Wiss. Math.-Natur. Kl.*)
- S.-B. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Berlin) (Continued as: *Sitzungsber. Akad. Wiss. Math.-Natur. Kl. Sachs.*)
- Sb. Naučn. Soobšč. Dagestan. Gos. Univ.* Sbornik Naučnyh Soobščeni. Dagestanskij Gosudarstvennyj Universitet im. V. I. Lenina (Makhachkala)
- Sb. Praci Ped. Fak. v Ostravě Ser. A.* Sborník Prací Pedagogické Fakulty v Ostravě. Seria A. (Ostrava)
- Sb. Praci Přírodověd. Fak. Univ. Palackého v Olomouci Fyz.* Sborník Prací Přírodovědecké Fakulty University Palackého v Olomouci. Obor Fyzika. (Prague)
- Sb. Praci Přírodověd. Fak. Univ. Palackého v Olomouci Mat.* Sborník Prací Přírodovědecké Fakulty University Palackého v Olomouci. Obor Matematika. (Prague)
- Sb. Trudov Odess. Ėlektrotehn. Inst. Svyazi.* Sbornik Trudov Odesskogo Ėlektrotehnického Instituta Svyazi im. A. S. Popova. (Odessa)
- Sb. Trudov Vsesojuz. Zaočn. Politehn. Inst.* Sbornik Trudov Vsesojuznogo Zaočnogo Politehnického Instituta. (Moscow)
- Sb. Vysoké. Učení Tech. v Brně.* Sborník Vysokého Učení Technického v Brně. (Brno)
- Scand. Actuar. J.* Scandinavian Actuarial Journal. (Uppsala)
- Scand. J. Statist.* Scandinavian Journal of Statistics. Theory and Applications. (Stockholm)
- Schr. Math. Inst. Univ. Münster.* Schriftenreihe des Mathematischen Instituts der Universität Münster. (Münster)
- Sci. Amer.* Scientific American. (New York)
- Sci. Bull. Fac. Ed. Nagasaki Univ.* Science Bulletin of the Faculty of Education. Nagasaki University. (Nagasaki)
- Sci. Electr.* Scientia Electrica. Moderne Probleme der theoretischen und angewandten Elektrotechnik. Modern Problems of Theoretical and Applied Electrical Engineering. (Basel)
- Sci. Hist.* Scientiarum Historia. Driemaandelijks Tijdschrift voor de Geschiedenis van de Geneeskunde, Wiskunde en Natuurwetenschappen. (Antwerp)
- Sci. Islandica.* Scientia Islandica. Science in Iceland. (Reykjavik)
- Sci. Papers College Gen. Ed. Univ. Tokyo.* Scientific Papers of the College of General Education. University of Tokyo. (Tokyo)
- Sci. Rep. College Gen. Ed. Osaka Univ.* Science Reports. College of General Education. Osaka University. (Osaka)
- Sci. Rep. Fac. Ed. Gifu Univ. Natur. Sci.* Science Reports of the Faculty of Education. Gifu University. Natural Science. (Gifu)
- Sci. Rep. Hiroaki Univ.* Science Reports of the Hiroaki University. (Hiroaki)
- Sci. Rep. Kagoshima Univ.* Science Reports of Kagoshima University. (Kagoshima)
- Sci. Rep. Kanazawa Univ.* The Science Reports of the Kanazawa University. (Kanazawa)
- Sci. Rep. Niigata Univ. Ser. A.* Science Reports of Niigata University. Series A. Mathematics. (Niigata)
- Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ.* Scientific Reports of the Research Institute for Theoretical Physics. Hiroshima University. (Hiroshima)
- Sci. Rep. Saitama Univ. Ser. A.* The Science Reports of the Saitama University. Series A. Mathematics, Physics and Chemistry. (Urawa)
- Sci. Rep. Tokyo Kyoiku Daigaku Sect. A.* Science Reports of the Tokyo Kyoiku Daigaku (Tokyo University of Education). Section A. (Tokyo)
- Sci. Rep. Tokyo Woman's Christian College.* Science Reports of Tokyo Woman's Christian College. (Tokyo)
- Sci. Rep. Yokohama Nat. Univ. Sect. I.* Science Reports of the Yokohama National University. Section I. Mathematics, Physics. (Yokohama)
- Sci. Rev.* Scientia Revue. (Belgrade)
- Sci. Sinica.* Scientia Sinica. (Peking)
- Science.* American Association for the Advancement of Science. Science. (Washington, D. C.)
- Scientia (Milano).* Scientia. Rivista Internazionale di Sintesi Scientifica. (Milano)
- Scientia (Valparaíso).* Universidad Técnica Federico Santa María. Scientia. (Valparaíso)
- Scripta Fac. Sci. Natur. UJEP Brunensis-Math.* Scripta Facultatis Scientiarum Naturalium Universita J. E. Purkyně Brunensis. Mathematica. (Brno)

- Scripta Fac. Sci. Natur. UJEP Brunensis-Phys.* Scripta Facultatis Scientiarum Naturalium Universita J. E. Purkyně Brunensis. Physica. (Brno)
- Scripta Math.* Scripta Mathematica. A Quarterly Journal Devoted to the Philosophy, History, and Expository Treatment of Mathematics. (New York)
- Sem. Inst. Prikl. Mat. Annotac. Doklady.* Tbiliskii Universitet. Seminar Instituta Prikladnoi Matematiki. Annotacii Dokladov. (Tbilisi) See *Gamoqeneb. Math. Inst. Sem. Moysen. Anotacie.*
- Semigroup Forum.* Semigroup Forum. (New York)
- Serdica.* Serdica. Bulgaricae Mathematicae Publicationes. (Sofia) (Formerly: *B'lgur. Akad. Nauk. Izv. Mat. Inst.*)
- Shengxue Xuebao.* See *Acta Acust. Sinica.*
- Shuxue Jinzhan.* Chinese Mathematical Society. Academia Sinica. Shuxue Jinzhan (Progress in Mathematics). (Peking)
- SIAM J. Appl. Math.* SIAM Journal on Applied Mathematics. (Philadelphia, Pa.)
- SIAM J. Comput.* SIAM Journal on Computing. (Philadelphia, Pa.)
- SIAM J. Control.* SIAM Journal on Control. (Philadelphia, Pa.) (Continued as: *SIAM J. Control Optimization*)
- **SIAM J. Control Optimization.* Society for Industrial and Applied Mathematics. Journal on Control and Optimization. (Philadelphia, Pa.) (Formerly: *SIAM J. Control*)
- SIAM J. Math. Anal.* SIAM Journal on Mathematical Analysis. (Philadelphia, Pa.)
- SIAM J. Numer. Anal.* SIAM Journal on Numerical Analysis. (Philadelphia, Pa.)
- SIAM Rev.* SIAM Review. A Publication of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- Siberian Math. J.* Siberian Mathematical Journal. (New York) (Translation of *Sibirsk. Mat. Zh.*)
- Sibirsk. Mat. Zh.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Sibirskii Matematicheskii Zhurnal. (Moscow) (Translated as: *Siberian Math. J.*)
- Siemens Forsch.- und Entwicklungsb.* Siemens Forschungs- und Entwicklungsberichte. Research and Development Reports. (Berlin)
- Simon Stevin.* Simon Stevin. Wis- en Natuurkundig Tijdschrift. (Groningen)
- **Simulation.* Society for Computer Simulation. Technical Journal. Simulation. (La Jolla, Calif.)
- Singapore Statist. Bull.* Singapore Statistical Bulletin. (Singapore)
- Sitzungsber. Heidelb. Akad. Wiss. Math.-Natur. Kl.* Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg) (Formerly: *S.-B. Heidelberger Akad. Wiss. Math.-Natur. Kl.*)
- Sitzungsber. Sachs. Akad. Wiss. Leipzig. Math.-Natur. Kl.* Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Berlin) (Formerly: *S.-B. Sachs. Akad. Wiss. Leipzig Math.-Natur. Kl.*)
- Sitzungsber. Wiss. Ges. Johann Wolfgang Goethe-Univ. Frankfurt am Main.* Sitzungsberichte der Wissenschaftlichen Gesellschaft an der Johann Wolfgang Goethe-Universität Frankfurt am Main. (Wiesbaden)
- Skr. Norske Vid.-Akad. Oslo I.* Skrifter Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Matematisk-Naturvidenskapelig Klasse. (Oslo)
- Smolensk. Gos. Ped. Inst. Učen. Zap.* Smolenskii Gosudarstvennyi Pedagogicheskii Institut. Učeny Zapiski. Smolenskii Matematicheskii Sbornik. (Smolensk)
- Smolensk. Mat. Sb.* See *Smolensk. Gos. Ped. Inst. Učen. Zap.*
- Soc. Actuar. Trans.* Society of Actuaries. Transactions. (Chicago, Ill.)
- Soc. Sci. Fenn. Comment. Phys.-Math.* Societas Scientiarum Fennica. Commentationes Physico-Mathematicae. (Helsinki)
- Software-Practice and Experience.* Software. Practice and Experience. (London)
- Soobšč. Akad. Nauk Gruz. SSR.* Soobščeniia Akademii Nauk Gruzinskoi SSR. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Moambe.*
- Soobšč. Vyčisl. Mat.* Akademija Nauk SSSR. Vyčislitel'nyi Centr. Soobščeniia po Vyčislitel'noi Matematike. (Moscow)
- South African Statist. J.* South African Statistical Journal. (Cape Town)
- Soviet Aeronaut.* Soviet Aeronautics. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.*)
- Soviet Appl. Mech.* Soviet Applied Mechanics. (New York) (Translation of *Prikladna. Meh.*)
- **Soviet Astronom.* Soviet Astronomy. A translation of *Astronomicheskii Zhurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Z.*) (Formerly: *Soviet Astronom. AJ*)
- Soviet Astronom. AJ.* Soviet Astronomy. AJ. A translation of *Astronomicheskii Zhurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Zh.*) (Continued as: *Soviet Astronom.*)
- Soviet Automat. Control.* Soviet Automatic Control (New York) (Translation of *Avtomatika*)
- Soviet J. Nuclear Phys.* American Institute of Physics. Soviet Journal of Nuclear Physics. (New York) (Translation of *Jadernaja Fiz.*)
- Soviet J. Particles and Nuclei.* Soviet Journal of Particles and Nuclei. (New York) (Translation of *Fiz. Elementar. Častic. i Atom. Jadra*)
- Soviet Math. Dokl.* Soviet Mathematics. Doklady. A translation of the mathematics section of *Doklady Akademii Nauk SSSR*. (Providence, R. I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)
- Soviet Math. (Iz. VUZ).* Soviet Mathematics (Izvestiya Vysših Učebnyh Zavedenii. Matematika). (New York) (Translation of: *Izv. Vysš. Učebn. Zaved. Matematika*)
- Soviet Physics Acoust.* Soviet Physics. Acoustics. (A translation of *Akustičeskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Akust. Zh.*)
- Soviet Physics-Collection.* Soviet Physics. Collection. (New York) (Translation of: *Litovsk. Fiz. Sb.*)
- Soviet Physics Dokl.* Soviet Physics. Doklady. A translation of the physics sections of *Doklady Akademii Nauk SSSR*. (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics J.* Soviet Physics Journal. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Fizika*)
- Soviet Physics JETP.* Soviet Physics. JETP. A translation of *Ž. Ėksperimental'noi i Teoreticheskoi Fiziki* of the USSR. (New York) (Translation of *Ž. Ėksper. Teoret. Fiz.*)
- Soviet Physics Uspekhi.* Soviet Physics. Uspekhi. A translation of *Uspehi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R. (New York) (Translation of *Uspehi Fiz. Nauk*)
- Spisy Ped. Fak. v Ostravě.* Spisy Pedagogické Fakulty v Ostravě. (Ostrava)
- Statist. Hefte.* Statistische Hefte. (Opladen)
- Statist. Problemy Upravljenija-Trudy Sem. Processy Optimal. Upravljenija V Sekcija.* Akademija Nauk Litovskoi SSR. Institut Fiziki i Matematiki. Institut Fiziko-Tekhnicheskikh Problem Energetiki. Litovskaja Territorial'naja Gruppy NKAU SSR Meždunarodnoi Federacii po Avtomaticheskomu Upravljeniju Litovskoi NII NTI i TEL. Statističeskije Problemy Upravljenija. Trudy Seminara "Processy Optimal'nogo Upravljenija." V Sekcija. (Vilnius)
- Statist. Theory Method Abstracts.* Statistical Theory and Method Abstracts. (London) (Usually abbreviated as *STMA* in the text of *Math. Reviews*)
- Statistica (Bologna).* Statistica. (Bologna)
- Statistica Neerlandica.* Statistica Neerlandica. Organ van de Vereniging voor Statistiek. (The Hague)
- STMA.* Statistical Theory and Method Abstracts. (London)
- Stochastic Processes Appl.* Stochastic Processes and their Applications. (Amsterdam)
- Stochastics.* Stochastics. (New York)
- Stud. Cerc. Econom.* Studii și Cercetări Economice. (Bucharest)
- Stud. Cerc. Fiz.* Studii și Cercetări de Fizică. (Bucharest)
- Stud. Cerc. Mat.* Studii și Cercetări Matematice. (Bucharest)
- Stud. Cerc. Mec. Apl.* Studii și Cercetări de Mecanică Aplicată. (Bucharest)
- Stud. Hist. Philos. Sci.* Studies in History and Philosophy of Science. (London)
- Studia Automat.* Studia z Automatiki. Poznánskie Towarzystwo Przyjaciół Nauk. Wydział Nauk Technicznych. Prace Komisji Automatyki. (Poznań)
- Studia Leibniziana.* Studia Leibniziana. Vierteljahrsschrift für Philosophie und Geschichte der Wissenschaften. (Wiesbaden)
- Studia Logica.* Polska Akademia Nauk. Institut Filozofii i Socjologii. Studia Logica. (Wrocław)
- Studia Math.* Polska Akademia Nauk. Institut Matematyczny. Studia Mathematica. (Warsaw)
- Studia Sci. Math. Hungar.* Consilium Instituti Mathematici Academiae Scientiarum Hungaricae. Studia Scientiarum Mathematicarum Hungarica. (Budapest)
- Studia Univ. Babeş-Bolyai Ser. Math.-Mech.* Studia Universitatis Babeş-Bolyai. Series Mathematica-Mechanica. (Cluj)
- Studia Univ. Babeş-Bolyai Ser. Phys.* Studia Universitatis Babeş-Bolyai. Series Physica. (Cluj)
- Studies in Appl. Math.* Studies in Applied Mathematics. (Cambridge, Mass.)
- Sudhoffs Arch.* Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften. (Wiesbaden)

- Sūgaku*. Mathematical Society of Japan. *Sūgaku* (Mathematics). (Tokyo)
- Sūgakushi Kenkyū*. History of Mathematics Society of Japan. *Sūgakushi Kenkyū* (Journal of History of Mathematics of Japan). (Tokyo)
- Su-hak kwa Mul-li*. Academy of Science of the People's Democratic Republic of Korea. Research Center for Physics and Mathematics. *Su-hak kwa Mul-li* (Mathematics and Physics). (Pyongyang)
- Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* Sverdlovskii Gosudarstvennyi Pedagogičeskii Institut. *Učenyje Zapiski*. (Sverdlovsk)
- Synthese*. *Synthese*. An International Journal for Epistemology, Methodology and Philosophy of Science. (Dordrecht)
- Systems and Control*. *Systems and Control* (Shisutemu to Seigyo). (Kyoto)
- Systems-Computers-Controls*. *Systems-Computers-Controls*. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tanshin Gakkai Ronbunshu*. See also: *Elektron. Commun. Japan*)
- **Számológép*. Nehézipari Minisztérium. Igargazakási és Uzemszervezési Intézet. *Számológép*. (Budapest)
- Szigma-Mat.-Közgazdasági Folyóirat*. *Sigma*. Matematikai-Közgazdasági Folyóirat. (Budapest)
- Tadžik. Gos. Univ. Trudy Meh.-Mat. Fak.* Tadžikskii Gosudarstvennyi Universitet im. V. I. Lenina. *Trudy Mehaniko-Matematicheskogo Fakul'teta*. (Dushanbe)
- Tadžik. Gos. Univ. Učen. Zap.* Tadžikskii Gosudarstvennyi Universitet im. V. I. Lenina. *Učenyje Zapiski*. *Trudy Fiziko-Matematicheskogo Fakul'teta*. Seriya Matematicheskaja. (Dushanbe)
- Tadžik. S.-h. Inst. Trudy*. Tadžikskii Sel'skhozjaistvennyi Institut i Tadžikskii Gosudarstvennyi Universitet. *Trudy*. (Dushanbe)
- Taita J. Math.* Taita Journal of Mathematics. (Taipei)
- Tallin. Polüteh. Inst. Toimetised Seer. A*. Tallinna Polütehnilise Instituudi Toimetised. Seria A. (Tallin)
- Tamkang J.* Tamkang Journal. (Taipei)
- Tamkang J. Math.* Tamkang Journal of Mathematics. (Taipei)
- Tanulmányok-MTA Számítástechn. Automat. Kutató Int. Budapest*. Tanulmányok. MTA Számítástechnikai és Automatizálási Kutató Intézet Budapest. (Budapest)
- Tartu Riikl. Ü. Toimetised*. Tartu Riikliku Ülikooli Toimetised. *Učenyje Zapiski* Tartuskogo Gosudarstvennogo Universiteta. Acta et Commentationes Universitatis Tartuens. Matemaatika ja Mehhanikaalseid Töid. *Trudy po Matematike i Mehanike*. (Tartu)
- Tashkent. Gos. Ped. Inst. Učen. Zap.* Tashkentskii Gosudarstvennyi Pedagogičeskii Institut im. Nizami. *Učenyje Zapiski*. (Tashkent)
- Tashkent. Gos. Univ.-Buharsk. Ped. Inst. Naučn. Trudy*. Tashkentskii Gosudarstvennyi Universitet. Buharskii Pedagogičeskii Institut. *Naučnye Trudy*. (Tashkent)
- Tashkent. Gos. Univ. Naučn. Trudy*. Tashkentskii Gosudarstvennyi Universitet im. V. I. Lenina. *Naučnye Trudy*. (Tashkent)
- Tashkent. Inst. Inž. Železnodorož. Transporta Trudy*. Tashkentskii Institut Inženerov Železnodorožnogo Transporta. *Trudy*. (Tashkent)
- Tashkent. Inst. Narod. Hoz. Naučn. Zap. Mat. v Prilozhen.* Tashkentskii Institut Narodnogo Hozjaistva. *Naučnye Zapiski*. Matematika v Prilozhenijah. (Tashkent)
- Tashkent. Politehn. Inst. Naučn. Trudy*. Tashkentskii Politehničeskii Institut. *Naučnye Trudy*. Novaja Serija. (Tashkent)
- Tashkent. Tekstil. Inst. Kaf. Vyš. Mat. Sb. Naučn. Issled. Rabot Ser. Mat.* Tashkentskii Tekstil'nyi Institut. Kafedra Vyššei Matematiki. *Sbornik Naučno-Issledovatel'skikh Rabot*. Seriya Matematiki. (Tashkent)
- Tbiliss. Gos. Univ. Inst. Prikl. Mat. Trudy*. Tbilisskii Gosudarstvennyi Universitet. Institut Prikladnoi Matematiki. *Trudy*. (Tbilisi) See *Tbiliss. Sahelmc. Univ. Gamoqneb. Math. Inst. Šrom*.
- Tech. Rep. Inst. Atom. Energy Kyoto Univ.* Technical Reports of the Institute of Atomic Energy. Kyoto University. (Kyoto)
- **Tech. Rep. Kansai Univ.* Kansai University. Technology Reports. (Osaka)
- Tech. Rep. Osaka Univ.* Technology Reports of the Osaka University. (Osaka)
- Technikgeschichte*. Technikgeschichte. Verein Deutscher Ingenieure. (Düsseldorf)
- Technometrics*. Technometrics. A Journal of Statistics for the Physical, Chemical and Engineering Sciences. (Princeton, N. J.)
- Tellus*. Svenska Geofysiska Föreningen. *Tellus*. A Quarterly Journal of Geophysics. (Uppsala)
- Tensor*. *Tensor*. New Series. The Tensor Society. (Tokyo)
- Teor. Funkcii Funkcional. Anal. i Prilozhen.* Har'kovskii Ordena Trudovogo Krasnogo Znameni Gosudarstvennyi Universitet im. A. M. Gor'kogo. *Teorija Funkcii, Funkcional'nyi Analiz i ih Prilozhenija*. (Kharkov)
- Teor. Veroyatnost. i Mat. Statist.* *Teorija Veroyatnostei i Matematicheskaja Statistika*. (Kiev) (Translated as: *Theory Probability and Math. Statist.*)
- Teor. Veroyatnost. i Primenen.* Akademija Nauk SSSR. *Teorija Veroyatnostei i ee Primenenija*. (Moscow) (Translated as: *Theor. Probability Appl.*)
- Teorema*. *Teorema*. (Valencia)
- Teoret. Elektrotehn.* L'vovskii Gosudarstvennyi Universitet. *Teoreticheskaja Elektrotehnika*. (Lvov)
- Teoret. i Prikladna Meh.* Har'kovskii Deržavnyi Universitet im. O. M. Gor'kogo. *Teoretichna i Prikladna Mehanika*. (Kharkov)
- Teoret. i Priloz. Meh.* B'lgarska Akademija na Naukite. *Teoretichna i Prilozna Mehanika*. (Sofia)
- Teoret. Mat. Fiz.* Akademija Nauk SSSR. *Teoreticheskaja i Matematicheskaja Fizika*. (Moscow) (Translated as: *Theoret. and Math. Phys.*)
- Teoret. Prikl. Mat.* MVSSO URSR L'vivskii Ordena Lenina Deržavnyi Universitet im. Iv. Franka. *Teoretichna i Prikladna Matematika*. (Lvov)
- TESLA Electronica*. TESLA Electronica. Quarterly Review of Czechoslovak Electronics and Telecommunications. (Prague)
- Tbiliss. Sahelmc. Univ. Gamoqneb. Math. Inst. Šrom*. Tbiliss Sahelmcipho Universiteti Gamoqnebiti Matematikis Instituti. Šromebi. (Tbilisi) (Also listed as: *Tbiliss. Gos. Univ. Inst. Prikl. Mat. Trudy*)
- Tbiliss. Univ. Šrom. A*. Tbiliss Universitetis Šromebi. A. *Fizika-Matematikisa de Sabunebismetqvelo Mecnerebani*. (Tbilisi) (Also listed as: *Trudy Tbiliss. Univ. A*)
- Theor. Comput. Sci.* Theoretical Computer Science. (Amsterdam)
- Theor. Probability Appl.* Theory of Probability and its Applications. An English translation of the Soviet journal *Teorija Veroyatnostei i ee Primenenija*. (Philadelphia, Pa.) (Translation of *Teor. Veroyatnost. i Primenen.*)
- Theoret. and Math. Phys.* Theoretical and Mathematical Physics. (New York) (Translation of *Teoret. Mat. Fiz.*)
- **Theoret. Linguist.* Theoretical Linguistics. (New York)
- Theoret. Population Biology*. Theoretical Population Biology. (New York)
- Theoria*. *Theoria*. A Swedish Journal of Philosophy. (Lund)
- Theory and Decision*. Theory and Decision. An International Journal for Philosophy and Methodology of the Social Sciences. (Dordrecht)
- Theory Probability and Math. Statist.* Theory of Probability and Mathematical Statistics. (Providence, R. I.) (Translation of: *Teor. Veroyatnost. i Mat. Statist.*)
- Tiraspol. Gos. Ped. Inst. Učen. Zap.* Tiraspol'skii Gosudarstvennyi Pedagogičeskii Institut im. T. G. Ševčenko. *Učenyje Zapiski*. (Kishinev)
- Tjumen. Gos. Ped. Inst. Učen. Zap.* *Učenyje Zapiski*. (Tyumen)
- Točn. i Nadezn. Kibernet. Sistem.* Akademija Nauk Ukrainskoi SSR. Institut Elektrodinamiki. *Točnost' i Nadežnost' Kibernetičeskikh Sistem*. (Kiev)
- Tōhoku Math. J.* The Tōhoku Mathematical Journal. (Sendai)
- Tomsk. Gos. Univ. Učen. Zap.* Tomskii Gosudarstvennyi Universitet im. V. V. Kuľbyševa. *Učenyje Zapiski*. (Tomsk)
- Topology*. *Topology*. An International Journal of Mathematics. (Oxford)
- Trabajos Estadist.* *Trabajos de Estadística*. (Madrid)
- Trans. Amer. Math. Soc.* Transactions of the American Mathematical Society. (Providence, R. I.)
- Trans. ASME Ser. E. J. Appl. Mech.* American Society of Mechanical Engineers. Transactions of the ASME. Series E. Journal of Applied Mechanics. (New York)
- Trans. ASME Ser. G. J. Dynamic Systems, Measurement and Control*. American Society of Mechanical Engineers. Transactions of the ASME. Series G. Journal of Dynamic Systems, Measurement and Control. (New York)
- Trans. Moscow Math. Soc.* Transactions of the Moscow Mathematical Society. (Providence, R. I.) (Translation of *Trudy Moskov. Mat. Obšč.*)
- Trans. New York Acad. Sci.* Transactions of the New York Academy of Sciences. (New York)
- Trans. Roy. Soc. Canada*. Transactions of the Royal Society of Canada. Chemical, Mathematical and Physical Sciences. (Ottawa, Ont.)
- Trans. Roy. Soc. South Africa*. Transactions of the Royal Society of South Africa. (Cape Town)
- **Trans. Soc. Rheol.* Society of Rheology. Transactions. (New York)

- Transport Theory Statist. Phys.* Transport Theory and Statistical Physics. An International Journal for Rapid Communication. (New York)
- Transportation Sci.* Operations Research Society of America. Transportation Science Section. Transportation Science. (Baltimore, Md.)
- TRU Math.* TRU Mathematics. (Tokyo)
- Trudy Akad. Nauk Litov. SSR Ser. B.* Lietuvos TSR Mokslų Akademijos. Darbai. Serija B. Akademii Nauk Litovskoi SSR. Trudy. Serija B. (Vilnius)
- **Trudy Altaisk. Politehn. Inst.* Altaiskii Politehnicheskii Institut im. I. I. Polizunova. Trudy. (Barnaul)
- Trudy Arhangel. Lesotehn. Inst.* Trudy Arhangel'skogo Lesotekhnicheskogo Instituta im. V. V. Kuibysheva. (Arkhangelsk)
- Trudy Bashk. S.-h. Inst.* Trudy Bashkirskogo Sel'skhozhozhaystvennogo Instituta. (Ufa)
- Trudy Doneck. Politehn. Inst.* Trudy Doneckogo Politehnicheskogo Instituta. (Doneck)
- Trudy Fiz. Inst. Lebedev.* Akademiya Nauk SSSR. Trudy Fizicheskogo Instituta im. P. N. Lebedeva. (Moscow) (Translated as: *Proc. (Trudy) P. N. Lebedev Phys. Inst.*)
- Trudy Frunze. Politehn. Inst.* Frunzenskii Politehnicheskii Institut. Trudy Frunzenskogo Politehnicheskogo Instituta. (Frunze)
- Trudy Geometr. Sem.* Akademiya Nauk SSSR. Institut Naučnoi Informacii. VINITI. Trudy Geometričeskogo Seminara. (Moscow)
- Trudy Glavn. Geofiz. Observator.* Glavnaya Geofizicheskaya Observatoriya im. A. I. Voikova. Trudy. (Leningrad)
- Trudy Inst. Istor. Estestvoznaniya i Tehniki.* Akademiya Nauk SSSR. Trudy Instituta Istorii Estestvoznaniya i Tehniki. (Moscow)
- Trudy Inst. Mat. i Meh. Ural. Nauch. Centr Akad. Nauk SSSR.* Trudy Instituta Matematiki i Mekhaniki. Ural'skii Nauchnyi Centr. Akademiya Nauk SSSR. (Sverdlovsk)
- Trudy Inst. Sistem Upravleniya Akad. Nauk Gruzii. SSR.* Akademiya Nauk Gruzinskoi SSR. Trudy Instituta Sistem Upravleniya. See *Sakharth. SSR Mecn. Akad. Marthw. Sistem. Inst. Šrom.*
- Trudy Inst. Teoret. Astronom.* Akademiya Nauk SSSR. Trudy Instituta Teoreticheskoi Astronomii. (Moscow)
- Trudy Irkutsk. Gos. Univ.* Trudy Irkutskogo Gosudarstvennogo Universiteta. (Irkutsk)
- **Trudy Kaf. Teorii Funktsii i Funktsional. Anal. Moskov. Gos. Univ.* Moskovskii Gosudarstvennyi Universitet. Mekhaniko-matematicheskii Fakul'tet. Kafedra Teorii Funktsii i Funktsional'nogo Analiza. Trudy. (Moscow)
- Trudy Kaliningrad. Gos. Univ. Differentsial'naya Geometr. Mnogoobraz. Figur.* Trudy Kaliningradskogo Gosudarstvennogo Universiteta. Differentsial'naya Geometriya Mnogoobraznykh Figur. (Kaliningrad)
- Trudy Kazan. Aviacion. Inst.* Trudy Kazanskogo Aviacionnogo Instituta. Matematika i Mekhanika. (Kazan)
- **Trudy Kazan. Gorod. Astronom. Observator.* Kazanskii Ordena Trudovogo Krasnogo Znameni Gosudarstvennyi Universitet im. V. I. Ul'janova-Lenina. Trudy Kazanskoi Gorodskoi Astronomicheskoi Observatorii. (Kazan)
- Trudy Kazan. S.-h. Inst.* Trudy Kazanskogo Sel'skhozhozhaystvennogo Instituta. (Kazan)
- Trudy Kirgiz. Gos. Univ. Ser. Mat. Nauk.* Kirgizskii Gosudarstvennyi Universitet. Trudy Kirgizskogo Gosudarstvennogo Universiteta. Seriya Matematicheskikh Nauk. (Frunze)
- Trudy Kolomen. Filiala Vsesojuz. Zaochn. Politehn. Inst.* Vsesojuznyi Zaochnyi Politehnicheskii Institut. Trudy Kolomenskogo Filiala. (Moscow)
- Trudy Komi Filiala Akad. Nauk SSSR.* Trudy Komi Filiala Akademii Nauk SSSR. (Syktyvkar)
- Trudy Leningrad. Tehnolog. Inst. Holod. Promysl.* Trudy Leningradskogo Tekhnologicheskogo Instituta Holodil'noi Promyshlennosti. (Leningrad)
- Trudy Mat. Inst. Steklov.* Akademiya Nauk Sojuza Sovetskikh Socialisticheskikh Respublik. Trudy Matematicheskogo Instituta im. V. A. Steklova. (Moscow) (Translated as: *Proc. Steklov Inst. Math.*)
- Trudy Metrolog. Inst. SSSR.* Vsesojuznyi Nauchno-Issledovatel'skii Institut Metrologii im. D. I. Mendeleeva. Tbilisskii Filial. Trudy Metrologicheskikh Institutov SSSR. (Tbilisi)
- Trudy Moskov. Elektrotehn. Inst. Svjazi (MEIS).* Trudy Moskovskogo Elektrotehnicheskogo Instituta Svjazi. Trudy MEIS. (Moscow)
- Trudy Moskov. Inst. Radiotekhn. Elektron. i Avtomat.* Trudy Moskovskogo Instituta Radiotekhniki, Elektroniki i Avtomatiki. (Moscow)
- Trudy Moskov. Mat. Obšč.* Trudy Moskovskogo Matematicheskogo Obščestva. (Moscow) (Translated as: *Trans. Moscow Math. Soc.*)
- Trudy Moskov. Orden. Lenin. Energet. Inst.* Trudy Moskovskogo Ordena Lenina Energeticheskogo Instituta. (Moscow)
- Trudy Nauchno-Ossled. Inst. Avtomatizacii Proizvod. Processov Him. Promysl. i Cvet. Metallurgii.* Trudy Nauchno-Issledovatel'skogo Instituta Avtomatizacii Proizvodstvennykh Processov Himicheskoj Promyshlennosti i Cvetnoi Metallurgii. "NIIA Avtomatika". (Kirovakan)
- Trudy Nikolaev. Korablestroitel. Inst.* Nikolaevskii Ordena Trudovogo Krasnogo Znameni Korablestroitel'nyi Institut im. Admirala S. O. Makarova. Trudy Nikolaevskogo Korablestroitel'nogo Instituta. (Nikolaev)
- Trudy Otd. Ekonom. Issled. Burjat. Filiala Sibirsk. Otdel. Akad. Nauk SSSR.* Trudy Otdela Ekonomicheskikh Issledovanii Burjatskogo Filiala Sibirskogo Otdeleniya Akademii Nauk SSSR. (Ulan Ude)
- Trudy Prževal'sk. Gos. Ped. Inst.* Trudy Prževal'skogo Gosudarstvennogo Pedagogičeskogo Instituta. (Prževal'sk)
- Trudy Rjazan. Radiotekhn. Inst.* Trudy Rjazanskogo Radiotekhnicheskogo Instituta. (Ryazan)
- Trudy Samarkand. Gos. Univ.* Trudy Samarkandskogo Gosudarstvennogo Universiteta im. A. Navoi. (Samarkand)
- Trudy Saratov. Inst. Meh. S.-h.* Trudy Saratovskogo Instituta Mehanizacii Sel'skogo Khozjajstva. (Saratov)
- Trudy Sem. Kraev. Zadačam.* Trudy Seminara po Kraevym Zadačam. (Kazan)
- Trudy Sem. Mat. Fiz. Nelinein. Koleban.* Akademiya Nauk Ukrainskoi SSR. Institut Matematiki. Trudy Seminara po Matematicheskoi Fizike i Nelineinym Kolebanijam. (Kiev)
- Trudy Sem. Teor. Differentsial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby.* Trudy Seminara po Teorii Differentsial'nykh Uravnenii s Otklonjajushchimsja Argumentom. Universitet Družby Narodov im. Patrisa Lumumby. (Moscow)
- Trudy Sem. Vektor. Tenzor. Anal.* Trudy Seminara po Vektornomu i Tenzornomu Analizu s ih Prilozhenijami k Geometrii, Mekhanike i Fizike. (Moscow)
- Trudy Sibirsk. Fiz.-Tehn. Inst.* Trudy Sibirskogo Fiziko-Tekhnicheskogo Instituta imeni Akademika V. D. Kuznecova. (Tomsk)
- Trudy Tadžik. Politehn. Inst.* Trudy Tadžikskogo Politehnicheskogo Instituta. (Dushanbe)
- Trudy Taškent. Gos. Univ.* Trudy Taškentskogo Gosudarstvennogo Universiteta im. V. I. Lenina. Matematika. (Tashkent) See *Taškent. Gos. Univ. Nauch. Trudy.*
- Trudy Tbiliss. Univ. A.* Trudy Tbilisskogo Universiteta. A. Fiziko-Matematicheskie i Estestvennye Nauki. (Tbilisi) See *Tbilis. Univ. Šrom. A.*
- Trudy Tomsk. Gos. Univ.* Trudy Tomskogo Gosudarstvennogo Universiteta im. V. V. Kuibysheva. (Tomsk)
- Trudy Univ. Družby Narod.* Trudy Universiteta Družby Narodov im. Patrisa Lumumby. (Moscow)
- Trudy Vsesojuz. Nauchno-Issled. Inst. Elektromeh.* Trudy Vsesojuznogo Nauchno-Issledovatel'skogo Instituta Elektromekhaniki. (Moscow)
- Trudy Vsesojuz. Zaochn. Energet. Inst.* Trudy Vsesojuznogo Zaochnogo Energeticheskogo Instituta. (Moscow)
- Trudy VTI.* Vsesojuznyi Davždy Ordena Trudovogo Krasnogo Znameni Teploekhnicheskii Nauchno-Issledovatel'skii Institut im. F. E. Dzeržinskogo. Trudy Vsesojuznogo Teploekhnicheskogo Instituta. (Moscow)
- Trudy Vyčisl. Centra Akad. Nauk Armjan. SSR i Erevan. Gos. Univ. Mat. Voprosy Kibernet. i Vyčisl. Tehn.* Trudy Vyčislitel'nogo Centra Akademii Nauk Armjanskoi SSR i Erevanskogo Gosudarstvennogo Universiteta. Matematicheskie Voprosy Kibernetiki i Vyčislitel'noi Tekhniki. (Erevan)
- Trudy Vyčisl. Centra Akad. Nauk Gruzii. SSR.* Akademiya Nauk Gruzinskoi SSR. Trudy Vyčislitel'nogo Centra. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Gamotvhl. Centr. Šrom.*
- Trudy Vyčisl. Centra Tartu. Gos. Univ.* Trudy Vyčislitel'nogo Centra. Tartuskii Gosudarstvennyi Universitet. (Tartu)
- Tul. Gos. Ped. Inst. Učen. Zap. Mat. Kaf.* Tul'skii Gosudarstvennyi Pedagogičeskii Institut im. L. N. Tolstogo. Učenyje Zapiski Matematicheskikh Kafedr. (Tula)
- Turkmen. Gos. Univ. Učen. Zap.* Turkmeniskii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Učenyje Zapiski. (Ashkhabad)
- Tydskr. Natuurwetenskap.* Die Suid-Afrikaanse Akademie vir Wetenskap en Kuns. Tydskrif vir Natuurwetenskappe. (Pretoria)

- U.S.S.R. Computational Math. and Math. Phys.* U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyšš. Mat. i Mat. Fiz.*)
- Učen. Zap. Erevan. Gos. Univ. Estestv. Nauki.* Učeny Zapiski Erevanskogo Gosudarstvennogo Universiteta. Estestvennyye Nauki. (Erevan)
- Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk.* Ministerstvo Prosvětenija RSFSR. Karel'skii Pedagogičeskii Institut. Učeny Zapiski. Serija Fiziko-Matematičeskiih Nauk. (Petrozavodak)
- Učen. Zap. Statist. Akademija Nauk SSSR.* Central'nyĭ Ekonomiko-Matematičeskii Institut. Učeny Zapiski po Statistike. (Moscow)
- UIT Rep.* UIT Report. Ulsan Institute of Technology. (Ulsan)
- Ukrain. Fiz. Ž.* Akademija Nauk Ukraïns'koï RSR. Vîddi Fiziki. Ukraïns'kii Fizičnii Žurnal. (Kiev) (Ukrainian edition)
- Ukrain. Fiz. Ž.* Akademija Nauk Ukraïns'koï SSR. Otdelenie Fiziki. Ukraïnskii Fizičeskii Žurnal. (Kiev) (Russian edition)
- Ukrain. Geometr. Sb.* Ministerstvo Vyššego i Srednego Special'nogo Obrazovanija USSR. Ukraïnskii Geometričeskii Sbornik. (Kharkov)
- Ukrain. Mat. Ž.* Akademija Nauk Ukraïns'koï SSR. Institut Matematiki. Ukraïnskii Matematičeskii Žurnal. (Kiev) (Translated as: *Ukrainian Math. J.*)
- Ukrainian Math. J.* Ukrainian Mathematical Journal. (New York) (Translation of *Ukrain. Mat. Ž.*)
- Uľjanovsk. Gos. Ped. Inst. Učen. Zap.* Uľjanovskii Gosudarstvennyi Pedagogičeskii Institut im. I. N. Uľjanova. Učeny Zapiski. (Saratov)
- Univ. Allahabad Studies.* University of Allahabad Studies. (Allahabad)
- Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Elektron. Telekomun. Automat.* Univerzitet u Beogradu Publikacije Elektrotehničkog Fakulteta. Serija Elektronika, Telekomunikacije, Automatika. (Belgrade)
- Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz.* Univerzitet u Beogradu. Publikacije Elektrotehničkog Fakulteta. Serija Matematika i Fizika. (Belgrade)
- Univ. Beograd. Radovi Zavoda za Fiz.* Univerzitet u Beogradu. Zavod za Fiziku Tehničkih Fakulteta u Beogradu. Radovi Zavoda za Fiziku. (Belgrade) (Continued as: *Univ. Beograd. Tehn. Fiz.*)
- **Univ. Beograd. Tehn. Fiz.* Univerzitet u Beogradu. Tehnička Fizika. Journal of Engineering Physics. (Belgrade) (Formerly: *Univ. Beograd. Radovi Zavoda za Fiz.*)
- Univ. Beograd. Zb. Radova Građevin. Fak.* Univerzitet u Beogradu. Zbornik Radova Građevinskog Fakulteta u Beogradu. (Belgrade)
- Univ. Genova Pubbl. Ist. Mat.* Università di Genova. Pubblicazioni dell'Istituto di Matematica. (Genoa)
- Univ. Habana.* Universidad de la Habana. (Havana)
- Univ. Lisboa Revista Fac. Ci. A.* Universidade de Lisboa. Revista da Faculdade de Ciências. 2.^a Série. A. Ciências Matemáticas. (Lisbon)
- Univ. Madrid Publ. Sec. Mat. Fac. Ci.* Universidad de Madrid. Publicaciones de la Sección de Matemática de la Facultad de Ciencias. (Madrid)
- Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* Universidad Nacional de Ingeniería. Instituto de Matemáticas Puras y Aplicadas. Notas de Matemáticas. (Lima)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Segunda Rev. (or Contrib.)* Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Segunda. Revista (or Contribuciones). (La Plata)
- Univ. Nac. Tucumán Rev. Ser. A.* Universidad Nacional de Tucumán. Facultad de Ciencias Exactas y Tecnología. Revista. Serie A. Matemáticas y Física Teórica. (Tucumán)
- Univ. Palermo Ann. Fac. Econom. e Commercio.* Università di Palermo. Annali della Facoltà di Economia e Commercio. (Palermo)
- Univ. Studies Math.* University Studies in Mathematics. (Jaipur)
- Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak.* Univerzitet u Novom Sadu. Zbornik Radova Prirodno-Matematičkog Fakulteta. (Novi Sad)
- Universidad.* Universidad. Revista de Cultura y Vida Universitaria. (Zaragoza)
- Univ. Śląski w Katowicach Prace Naukowe.* Uniwersytet Śląski w Katowicach. Prace Naukowe. (Katowice)
- Univ. Śląski w Katowicach Prace Naukowe—Prace Mat.* Uniwersytet Śląski w Katowicach. Prace Naukowe. Prace Matematyczne. (Katowice)
- Upravljajemye Sistemy.* Upravljajemye Sistemy. Institut Matematiki, Institut Kataliza Sibirskogo Otdelenija Akademii Nauk SSSR. (Novosibirsk)
- Ural. Gos. Univ. Mat. Zap.* Ural'skii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Ural'skoe Matematičeskoe Obscestvo. Matematičeskie Zapiski. (Sverdlovsk)
- Ural. Politehn. Inst. Sb.* Ural'skii Politehničeskii Institut im. S. M. Kirova. Sbornik. (Sverdlovsk)
- Urdmurt. i Glazov. Ped. Inst. Učen. Zap.* Urdmurt'skogo i Glazovskogo Pedagogičeskogo Instituta Učeny Zapiski. (Izhevsk) (May also appear as: *Urdmurt. Ped. Inst. Učen. Zap.*)
- Urdmurt. Ped. Inst. Učen. Zap.* Urdmurt'skogo Pedagogičeskogo Instituta Učeny Zapiski. (Izhevsk) (May also appear as: *Urdmurt. i Glazov. Ped. Inst. Učen. Zap.*)
- Uspehi Fiz. Nauk.* Akademija Nauk SSSR. Uspehi Fizičeskiih Nauk. (Moscow) (Translated as: *Soviet Physics Uspehi*)
- Uspehi Mat. Nauk.* Akademija Nauk SSSR i Moskovskoe Matematičeskoe Obščestvo. Uspehi Matematičeskiih Nauk. (Moscow) (Selected articles translated as: *Russian Math. Surveys*)
- Utilitas Math.* Utilitas Mathematica. A Canadian Journal of Applied Mathematics, Computer Science, and Statistics. (Winnipeg, Man.)
- V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* V. I. Leninis Saĥelobis Šromis Citheli Drošis Ordenosani Sakharthvelos Politekhnikuri Instituti. Šromebi. (Tbilisi) (Also listed as: *Gruzín. Politehn. Inst. Trudy*) (Continued as: *V. I. Lenin. Sakharth. Politekh. Inst. Samecn. Šrom*)
- **V. I. Lenin. Sakharth. Politekh. Inst. Samecn. Šrom.* V. I. Leninis Saĥelobis Šromis Citheli Drošis Ordenosani Sakharthvelos Politekhnikuri Instituti. Samecniero Šromebi. (Tbilisi) (Formerly: *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.*)
- Verh. Konink. Acad. Wetensch. Lett. Schone Kunst. Belgijē Kl. Wetensch.* Verhandlungen van de Koninklijke Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen. (Brussels)
- **Verzekerings-Arch.* Het Verzekerings-Archief. ('s-Gravenhage)
- Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk.* Vesci Akademii Navuk BSSR. Serija Fizika-Matematyčnyh Navuk. (Minsk)
- Vestnik Akad. Nauk Kazah. SSR.* Vestnik Akademii Nauk Kazahskoi SSR. (Alma-Ata)
- Vestnik Akad. Nauk SSSR.* Vestnik Akademii Nauk SSSR. (Moscow)
- Vestnik Beloruss. Gos. Univ. Ser. I.* Vestnik Belorusskogo Gosudarstvennogo Universiteta im. V. I. Lenina. Naučnyĭ Žurnal. Serija I. Matematika, Fizika, Mehanika. (Minsk)
- Vestnik Har'kov. Gos. Univ.* Vestnik Har'kovskogo Gosudarstvennogo Universiteta. Serija Mehaniko-Matematičeskaja. Zapiski Mehaniko-Matematičeskogo Fakulteta i Har'kovskogo Matematičeskogo Obščestva. (Kharkov)
- Vestnik Har'kov. Politehn. Inst.* Vestnik Har'kovskogo Politehničeskogo Instituta. (Kharkov)
- Vestnik Leningrad. Univ. Fiz. Him.* Vestnik Leningradskogo Universiteta. Fizika, Himija. (Leningrad)
- Vestnik Leningrad. Univ. Mat. Meh. Astronom.* Vestnik Leningradskogo Universiteta. Matematika, Mehanika, Astronomija. (Leningrad)
- Vestnik Leningrad Univ. Math.* Vestnik Leningrad University. Mathematics. (Providence, R. I.) (A translation of the mathematics section of *Vestnik Leningrad Univ. Mat. Meh. Astronom.*)
- Vestnik Moskov. Univ. Ser. I Mat. Meh.* Vestnik Moskovskogo Universiteta. Serija I. Matematika, Mehanika. (Moscow) (Mathematics section translated as: *Moscow Univ. Math. Bull.*)
- Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* Vestnik Moskovskogo Universiteta. Serija III. Fizika, Astronomija. (Moscow) (Translated as: *Moscow Univ. Phys. Bull.*)
- Vestnik Statist.* Vestnik Statistiki. (Moscow)
- Vidya.* Vidya (Knowledge). The Journal of the Gujarat University. (Ahmedabad) (Continued as: *Vidya B*)
- Vidya B.* Vidya B. Sciences. The Journal of the Gujarat University. (Ahmedabad) (Formerly: *Vidya*)
- Vierteljahr. Naturforsch. Gesellsch. Zürich.* Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich. (Zurich)
- **Vignana Bharathi.* Vignana Bharathi. (Bangalore)
- Vijnana Parishad Anusandhan Patrika.* Vijnana Parishad Anusandhan Patrika [The Research Journal of the Hindu Science Academy]. (Allahabad)
- Vikram—Quart. Rez. J. Vikram Univ.* The Vikram. Quarterly Research Journal of Vikram University. (Ujjain)

- Virginia J. Sci.* Virginia Journal of Science. (Richmond, Va.)
- Visnik Kiiv. Univ. Ser. Mat. Meh.* Visnik Kiiv's'kogo Universitetu. Serija Matematiki ta Mehaniki. (Kiev)
- Visnik L'viv. Derz. Univ. Ser. Meh.-Mat.* Visnik L'viv's'kogo Ordena Lenina Derzavogo Universitetu im. Ivana Franka. Serija Mehaniko-Matematična. (Lvov)
- Visnik L'viv. Politehn. Inst.* Visnik L'viv's'kogo Politehničnogo Institutu. (Lvov)
- Vladimir. Gos. Ped. Inst. Učen. Zap.* Valdimirskij Gosudarstvennyj Pedagogičeskij Institut im. P. I. Lebedeva-Poljanskogo. Učenyi Zapiski. (Vladimir)
- Vladimir. Večer. Politehn. Inst. Sb. Naučn. Trudov.* Vladimirskij Večernij Politehničeskij Institut. Sbornik Naučnyh Trudov. (Vladimir)
- Volgograd. Gos. Ped. Inst. Učen. Zap.* Volgogradskogo Gosudarstvennogo Pedagogičeskogo Instituta im. A. S. Serafimoviča. Učenyi Zapiski. (Volgograd)
- Vologod. Gos. Ped. Inst. Učen. Zap.* Vologodskij Gosudarstvennyj Pedagogičeskij Institut. Učenyi Zapiski. (Vologda) (May also appear as: *Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap.*)
- Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap.* Vologodskij Gosudarstvennyj Pedagogičeskij Institut. Čerepoveckij Gosudarstvennyj Pedagogičeskij Institut. Učenyi Zapiski. (Vologda) (May also appear as: *Vologod. Gos. Ped. Inst. Učen. Zap.*)
- Volž. Mat. Sb.* Ministerstvo Prosvěščenija RSFSR. Kuibyševskij Gosudarstvennyj Pedagogičeskij Institut im. V. V. Kuibyševa. Volžskij Matematičeskij Sbornik. (Kuybyshev)
- **Voprosy Informacion. Teorii i Praktiki.* Akademija Nauk SSSR. Vsesojuznyj Institut Naučn. i Tehničesk. Informacii. Voprosy Informacionno Teorii i Praktiki. (Moscow)
- Voprosy Istor. Estestvozn. i Tehn.* Akademija Nauk SSSR. Voprosy Istorii Estestvoznaniia i Tehniki. (Moscow)
- Voprosy Kibernet.* Voprosy Kibernetiki. Akademija Nauk Uzbeksk. SSR. (Tashkent)
- Voprosy Vyčisl. i Prikl. Mat.* Akademija Nauk Uzbeksk. SSR. Trudy Ordena Trudovogo Krasnogo Znameni Instituta Kibernetiki i Vyčislitel' nym Centrom. Voprosy Vyčislitel'noj i Prikladnoj Matematiki. (Tashkent)
- Voronež. Gos. Univ. Sb. Naučn. Trudov Fak. Prikl. Mat. Meh. VGU.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniia RSFSR. Voronežskij Ordena Lenina Gosudarstvennyj Universitet im. Leninskogo Komsomola. Sbornik Naučnyh Trudov Fakulteta Prikladnoj Matematiki i Mehaniki. (Voronezh)
- Voronež. Gos. Univ. Trudy Mat. Fak.* Voronežskij Gosudarstvennyj Universitet im. Leninskogo Komsomola. Trudy Matematičeskogo Fakulteta. (Voronezh)
- Voronež. Gos. Univ. Trudy Naučn.-Issled. Inst. Mat. VGU.* Voronežskij Ordena Lenina Gosudarstvennyj Universitet im. Leninskogo Komsomola. Trudy Naučno-Issledovatel'skogo Instituta Matematiki. (Voronezh)
- Voronež. Gos. Univ. Trudy Sem. Funkcional. Anal.* Ministerstvo Vysshego Obrazovaniia SSSR. Voronežskij Gosudarstvennyj Universitet. Trudy Seminara po Funkcional'nomu Analizu. (Voronezh)
- Voronež. Tehn. Inst. Trudy.* Voronežskij Tehnologičeskij Institut. Trudy. (Voronezh)
- Voronež. Univ. Trudy Sem. Funkcional. Anal.* Voronežskij Universitet. Trudy Seminara po Funkcional'nomu Analizu. (Voronezh)
- Vsesojuz. Zaočn. Politehn. Inst. Sb. Trudov.* Vsesojuznyj Zaočnyj Politehničeskij Institut. Sbornik Trudov. (Moscow)
- Vyčisl. Mat. i Vyčisl. Tehn. (Kharkov).* Sbornik Naučnyh Trudov. Fiziko-Tehničeskij Institut Nizkij Temperatur Akademii Nauk Ukrainsk. SSR. Vyčislitel'naja Matematika i Vyčislitel'naja Tehnika. (Kharkov)
- Vyčisl. Prikl. Mat. (Kiev).* Kievskij Gosudarstvennyj Universitet. Mežvedomstvennyj Naučnyj Sbornik. Vyčislitel'naja i Prikladnaja Matematika. (Kiev)
- Vyčisl. Sistemy.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Vyčislitel'nye Sistemy. Sbornik Trudov. (Novosibirsk)
- Wladom. Mat.* Roczniki Polskiego Towarzystwa Matematycznego. Seria II. Wiadomości Matematyczne. (Warsaw)
- Wisconsin Acad. Sci. Arts Lett. Trans.* Wisconsin Academy of Sciences. Arts & Letters. Transactions. (Madison, Wis.)
- **Wiss. Beitr. Martin-Luther-Univ. Halle-Wittenberg Reihe M.* Martin-Luther-Universität Halle-Wittenberg. Wissenschaftliche Beiträge. Reihe M. (Halle) (Formerly: *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg*)
- Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg.* Wissenschaftliche Beiträge der Martin-Luther-Universität Halle-Wittenberg. (Halle-Wittenberg) (Continued as: *Wiss. Beitr. Martin-Luther-Univ. Halle-Wittenberg Reihe M Math.*)
- Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Natur. Reihe* Wissenschaftliche Zeitschrift der Ernst-Moritz-Arndt-Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald)
- Wiss. Z. Friedrich-Schiller-Univ. Jena.* Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena. (Jena) (Continued as: *Wiss. Z. Friedrich-Schiller-Univ. Jena Math.-Naturwiss. Reihe*)
- **Wiss. Z. Friedrich-Schiller-Univ. Jena Math.-Naturwiss. Reihe.* Friedrich-Schiller-Universität Jena. Wissenschaftliche Zeitschrift. Mathematisch-Naturwissenschaftliche Reihe. (Jena) (Formerly: *Wiss. Z. Friedrich-Schiller-Univ. Jena*)
- Wiss. Z. Hochsch. Verkehrswesen "Friedrich List" Dresden.* Wissenschaftliche Zeitschrift der Hochschule für Verkehrswesen "Friedrich List" in Dresden. Die Anwendung Mathematischer Methoden im Transport- und Nachrichtenwesen. (Dresden)
- Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe. (Berlin)
- Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Karl-Marx-Universität Leipzig. Mathematisch-Naturwissenschaftliche Reihe. (Leipzig)
- Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe. (Halle-Wittenberg)
- Wiss. Z. Pädagog. Hochsch. "Karl Liebknecht" Potsdam.* Wissenschaftliche Zeitschrift der Pädagogischen Hochschule "Karl Liebknecht" Potsdam. (Potsdam)
- Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg.* Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie Leuna-Merseburg. (Leuna-Merseburg)
- Wiss. Z. Techn. Hochsch. Ilmenau.* Wissenschaftliche Zeitschrift der Technischen Hochschule Ilmenau. (Ilmenau)
- Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt.* Wissenschaftliche Zeitschrift der Technischen Hochschule Karl-Marx-Stadt. (Karl-Marx-Stadt)
- Wiss. Z. Techn. Univ. Dresden.* Wissenschaftliche Zeitschrift der Technischen Universität Dresden. (Dresden)
- **Wiss. Z. Univ. Rostock Math.-Naturwiss. Reihe.* Universität Rostock. Wissenschaftliche Zeitschrift. Mathematisch-Naturwissenschaftliche Reihe. (Rostock)
- Wyż. Szkół. Ped. Krakow. Rocznik Nauk.-Dydakt. Prace Mat.* Wyższa Szkoła Pedagogiczna w Krakowie. Rocznik Naukowo-Dydaktyczny. Prace Matematyczne. (Kraków) (Continued as: *Wyż. Szkół. Ped. Krakow. Rocznik Nauk.-Dydakt. Prace Dydakt. Mat.*)
- **Wyż. Szkół. Ped. Krakow. Rocznik Nauk.-Dydakt. Prace Dydakt. Mat.* Wyższa Szkoła Pedagogiczna w Krakowie. Rocznik Naukowo-Dydaktyczny. Prace z Dydaktyki Matematyki. (Kraków) (Formerly: *Wyż. Szkół. Ped. Krakow. Rocznik Nauk.-Dydakt. Prace Mat.*)
- Yokohama Math. J.* Yokohama Mathematical Journal. (Yokohama)
- Z. Allgemeine Wissenschaftstheorie.* Zeitschrift für Allgemeine Wissenschaftstheorie. (Wiesbaden)
- Z. Angew. Math. Mech.* Zeitschrift für Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten. (Berlin)
- Z. Angew. Math. Phys.* Zeitschrift für Angewandte Mathematik und Physik. ZAMP. Journal of Applied Mathematics and Physics. Journal de Mathématiques et de Physiques Appliquées. (Basel)
- Ž. Ėksper. Teoret. Fiz.* Akademija Nauk SSSR. Žurnal Ėksperimental'noj i Teoretičesk. Fiziki. (Moscow) (Translated as: *Soviet Physics JETP*)
- Z. Elek. Informations- und Energietechnik.* Zeitschrift für Elektrische Informations- und Energietechnik. (Leipzig)
- Z. Math. Logik Grundlagen Math.* Zeitschrift für Mathematische Logik und Grundlagen der Mathematik. (Berlin)
- Z. Naturforsch.* Zeitschrift für Naturforschung. (Tübingen)
- Z. Operations Res. Ser. A-B.* Zeitschrift für Operations Research. Serie A. Serie B. (Würzburg)
- Z. Phonetik Sprachwiss. Kommunikat.* Zeitschrift für Phonetik Sprachwissenschaft und Kommunikationsforschung. (Berlin)
- Z. Phys. A.* Zeitschrift für Physik. A. Atoms and Nuclei. (Berlin)
- Z. Phys. B.* Zeitschrift für Physik. B. Condensed Matter and Quanta. (Berlin)
- Ž. Prikl. Meh. i Tehn. Fiz.* Žurnal Prikladnoj Mehaniki i Tehničesk. Fiziki (Moscow) (Translated as: *J. Appl. Mech. Tech. Phys.*)
- Ž. Struktural. Him.* Akademija Nauk SSR. Sibirskoe Otdelenie. Žurnal Struktural'noj Himii. (Moscow)

Ž. Vyčisl. Mat. i Mat. Fiz. Akademiya Nauk SSSR. *Žurnal Vyčislitel'noĭ Matematiki i Matematičeskoi Fiziki.* (Moscow) (Translated as: *U.S.S.R. Computational Math. and Math. Phys.*)

Z. Wahrscheinlichkeitstheorie und Verw. Gebiete. Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete. (Berlin)

Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč. See *Vestnik Har'kov. Gos. Univ.*

Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI). Zapiski Naučnykh Seminarov Leningradskogo Otdelenija Matematičeskogo Instituta im. V. A. Steklova Akademii Nauk SSSR (LOMI). (Leningrad) (Translated in *J. Soviet Math.*)

Zastos. Mat. Polska Akademia Nauk. Instytut Matematyczny. *Zastosowania Matematyki.* (Warsaw)

Zbl. Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin)

Zbl. Math. Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin) (Usually abbreviated *Zbl* in the text of *Math. Reviews*)

Zemedei. Meh. Vsesojuznaja Akademiya Sel'skhozhojstvennykh Nauk im. V. I. Lenina. Zemedei'českaja Mehanika. (Moscow)

Zeszyty Nauk. Akad. Gór.-Hutniczej-Mat.-Fiz.-Chem. *Zeszyty Naukowe Akademii Górniczo-Hutniczej im. Stanisława Staszica. Matematyka-Fizyka-Chemia.* (Kraków)

Zeszyty Nauk. Politech. Łódz. Mat. *Zeszyty Naukowe Politechniki Łódzkiej. Matematyka.* (Łódź)

Zeszyty Nauk. Politech. Śląsk. Automat. *Zeszyty Naukowe Politechniki Śląskiej. Automatyka.* (Gliwice)

Zeszyty Nauk. Politech. Śląsk. Mat.-Fiz. *Zeszyty Naukowe Politechniki Śląskiej. Matematyka-Fizyka.* (Gliwice)

Zeszyty Nauk. Politech. Szczecin. *Zeszyty Naukowe Politechniki Szczecińskiej.* (Szczecin)

Zeszyty Nauk. Szkoły Główn. Planowania i Statyst. *Zeszyty Naukowe Szkoły Głównej Planowania i Statystyki.* (Warsaw)

Zeszyty Nauk. Univ. Jagielloń. Prace Fiz. *Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Fizyczne.* (Kraków)

Zeszyty Nauk. Univ. Jagielloń. Prace Mat. *Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Matematyczne.* (Kraków)

Zeszyty Nauk. Univ. Łódz. Nauki Mat. Przyrod. Ser. II. *Zeszyty Naukowe Uniwersytetu Łódzkiego. Nauki Matematyczno-Przyrodnicze. Seria II.* (Łódź)

Zeszyty Nauk. Wyż. Szkoły Ped. w Opolu Fiz. *Zeszyty Naukowe Wyższej Szkoły Pedagogicznej w Opolu. Fizyka.* (Opole)

Zeszyty Nauk. Wyż. Szkoły Ped. w Opolu Mat. *Zeszyty Naukowe Wyższej Szkoły Pedagogicznej w Opolu. Matematyka.* (Opole)

Zhongguo Kexue Jishu Daxue Xuebao. (Peking) See *J. China Univ. Sci. Techn.*

JOURNALS IN TRANSLATION

- Acta Mech. Sinica* (New York). *Acta Mechanica Sinica*. (New York)
(Translation of *Acta Mech. Sinica* (Peking))
- Algebra and Logic*. *Algebra and Logic*. (New York) (Translation of *Algebra i Logika*)
- Astrophysics*. *Astrophysics*. A translation of *Astrofizika* of the Academy of Sciences of the Armenian SSR. (New York) (Translation of *Astrofizika*)
- Automat. Control and Computer Sci.* *Automatic Control and Computer Sciences*. (New York) (Translation of *Avtomat. i Vychisl. Tehn. (Riga)*)
- Automat. Document. and Math. Linguistics*. *Automatic Documentation and Mathematical Linguistics*. (New York) (Translation of: *Naučn.-Tehn. Informacija (VINITI) Ser. 2. Informacionnye Processy i Sistemy*)
- Automat. Remote Control*. *Automation and Remote Control*. A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR. (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)
- Chinese J. Phys. (Peking)*. *Chinese Journal of Physics*. Peking. A translation of *Acta Physica Sinica* of the Chinese Academy of Sciences, Peking. (New York) (Translation of *Acta Phys. Sinica*)
- Cosmic Res.* *Cosmic Research*. (New York) (Translation of *Kosmiches Issled.*)
- Cybernetics*. *Cybernetics*. (New York) (Translation of *Kibernetika (Kiev)*)
- Differential Equations*. *Differential Equations*. (New York) (Translation of *Differentsial'nye Uravneniya*)
- Electron. Commun. Japan*. *Electronics and Communications in Japan*. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi*. See also: *Systems-Computers-Controls*)
- Engng. Cybernetics*. *Engineering Cybernetics*. English edition of *Tekhnicheskaya Kibernetika*. (New York) (Translation of *Izv. Akad. Nauk SSSR Tehn. Kibernet.*)
- Fluid Dynamics*. *Fluid Dynamics*. (New York) (Translation of *Izv. Akad. Nauk SSSR Ser. Meh. Zhidk. Gaza*)
- Functional Anal. Appl.* *Functional Analysis and its Applications*. (New York) (Translation of *Funktsional. Anal. i Prilozhen.*)
- Geodes. and Aerophot.* *Geodesy and Aerophotography*. (Washington, D. C.) (Translation of *Izv. Vysš. Učebn. Zaved. Geod. i Aërofot.*)
- Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.* *Izvestiya Academy of Sciences USSR. Atmospheric and Oceanic Physics*. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana*)
- Izv. Acad. Sci. USSR Phys. Solid Earth*. *Izvestiya Academy of Sciences USSR. Physics of the Solid Earth*. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli*)
- J. Appl. Math. Mech.* *Journal of Applied Mathematics and Mechanics*. Translation of the Soviet journal *Prikladnaya Matematika i Mekhanika*. (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Mech. Tech. Phys.* *Journal of Applied Mechanics and Technical Physics*. (New York) (Translation of *Ž. Prikl. Meh. i Tehn. Fiz.*)
- J. Engng. Phys.* *Journal of Engineering Physics*. (New York) (Translation of *Ing.-Fiz. Zh.*)
- J. Soviet Math.* *Journal of Soviet Mathematics*. (New York) (Translation of: (1) *Itogi Nauki—Seriya Matematika* (Progress in Science—Mathematical Series); (2) *Problemy Matematicheskogo Analiza* (Problems in Mathematical Analysis); (3) *Zap. Nauch. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)*)
- **Lithuanian Math. Trans.* *Lithuanian Mathematical Transactions*. (New York) (Translation of *Litovsk. Mat. Sb.*) (Formerly: *Math. Trans. Acad. Sci. Lithuanian SSR*)
- Magnetohydrodynamics*. *Magnetohydrodynamics*. A translation of *Magnitnaya Gidrodinamika* of the Academy of Sciences of the Latvian SSR. (New York) (Translation of *Magnit. Gidrodinamika*)
- Math. Notes*. *Mathematical Notes of the Academy of Sciences of the USSR*. (New York) (Translation of *Mat. Zametki*)
- **Math. Trans. Acad. Sci. Lithuanian SSR*. *Lithuanian SSR. Academy of Science. Mathematical Transactions*. (New York) (Translation of *Litovsk. Mat. Sb.*) (Continued as: *Lithuanian Math. Trans.*)
- Math. USSR-Izv.* *Mathematics of the USSR-Izvestiya*. (Providence, R. I.) (Translation of *Izv. Akad. Nauk SSSR Ser. Mat.*)
- Math. USSR-Sb.* *Mathematics of the USSR-Sbornik*. (Providence, R. I.) (Translation of *Mat. Sb.*)
- Mechanics of Solids*. *Mechanics of Solids*. (New York) (Translation of *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)
- Moscow Univ. Math. Bull.* *Moscow University Mathematics Bulletin*. (New York) (Translation of the mathematics section of *Vestnik Moskov. Univ. Ser. I Mat. Meh.*)
- Moscow Univ. Phys. Bull.* *Moscow University Physics Bulletin*. (New York) (Translation of *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.*)
- Probleme der Kybernetik*. *Probleme der Kybernetik*. (Berlin) (Translation of *Problemy Kibernet.*)
- Problems of Information Transmission*. *Problems of Information Transmission*. (New York) (Translation of *Problemy Peredači Informacii*)
- Proc. Steklov Inst. Math.* *Proceedings of the Steklov Institute of Mathematics*. (Providence, R. I.) (Translation of *Trudy Mat. Inst. Steklov.*)
- Proc. (Trudy) P. N. Lebedev Phys. Inst.* *Proceedings (Trudy) of the P. N. Lebedev Physics Institute*. (New York) (Translation of *Trudy Fiz. Inst. Lebedev.*)
- Radio Engng. Electron. Phys.* *Radio Engineering and Electronic Physics*. Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication. (New York) (Translation of *Radiotekhn. i Elektron.*)
- Radiophys. and Quantum Electronics*. *Radiophysics and Quantum Electronics*. A translation of *Izvestiya Vysših Učebnykh Zavedenii Radiofizika* of the Ministry of Higher Education of the USSR. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Radiofizika*)
- Russian Math. Surveys*. *Russian Mathematical Surveys*. A translation of the survey articles and of selected biographical articles in *Uspehi Matematicheskikh Nauk*. (London) (Translation of *Uspehi Mat. Nauk*)
- Siberian Math. J.* *Siberian Mathematical Journal*. (New York) (Translation of *Sibirsk. Mat. Zh.*)
- Soviet Aeronaut.* *Soviet Aeronautics*. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.*)
- Soviet Appl. Mech.* *Soviet Applied Mechanics*. (New York) (Translation of *Prikl. Meh.*)
- Soviet Astronom. AJ.* *Soviet Astronomy*. *AJ.* A translation of *Astronomicheskii Zhurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Zh.*)
- Soviet Automat. Control*. *Soviet Automatic Control*. (New York) (Translation of *Avtomatika*)
- Soviet J. Nuclear Phys.* *American Institute of Physics. Soviet Journal of Nuclear Physics*. (New York) (Translation of *Jadernaja Fiz.*)
- Soviet J. Particles and Nuclei*. *Soviet Journal of Particles and Nuclei*. (New York) (Translation of *Fiz. Elementar. Častic. i Atom. Jadra*)
- Soviet Math. Dokl.* *Soviet Mathematics. Doklady*. A translation of the mathematics section of *Doklady Akademii Nauk SSSR*. (Providence, R. I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)
- Soviet Math. (Iz. VUZ)*. *Soviet Mathematics (Izvestiya Vysših Učebnykh Zavedenii Matematika)*. (New York) (Translation of: *Izv. Vysš. Učebn. Zaved. Matematika*)
- Soviet Physics Acoust.* *Soviet Physics. Acoustics*. A translation of *Akusticheskii Zhurnal* of the Academy of Sciences of the USSR. (New York) (Translation of *Akust. Zh.*)
- Soviet Physics—Collection*. *Soviet Physics. Collection*. (New York) (Translation of: *Litovsk. Fiz. Sb.*)
- Soviet Physics Dokl.* *Soviet Physics. Doklady*. A translation of the physics sections of *Doklady Akademii Nauk SSSR*. (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics J.* *Soviet Physics Journal*. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Fizika*)
- Soviet Physics JETP*. *Soviet Physics. JETP*. A translation of *Ž. Eksperimental'noi i Teoreticheskoi Fiziki* of the USSR. (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)
- Soviet Physics Uspekhi*. *Soviet Physics. Uspekhi*. A translation of *Uspehi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R. (New York) (Translation of *Uspehi Fiz. Nauk*)

Systems-Computers-Controls. Systems-Computers-Controls. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Taushin Gakkai Ronbunshi*. See also: *Electron. Commun. Japan*)

Systems Theory Res. Systems Theory Research. (New York) (Translation of *Problemy Kibernet.*)

Theor. Probability Appl. Theory of Probability and its Applications. An English translation of the Soviet journal *Teoriya Veroyatnostei i ee Primeneniya*. (Philadelphia, Pa.) (Translation of *Teor. Veroyatnost. i Primenen.*)

Theoret. and Math. Phys. Theoretical and Mathematical Physics. (New York) (Translation of *Theoret. Mat. Fiz.*)

Theory Probability and Math. Statist. Theory of Probability and Mathematical Statistics. (Providence, R. I.) (Translation of: *Teor. Veroyatnost. i Mat. Statist.*)

Trans. Moscow Math. Soc. Transactions of the Moscow Mathematical Society. (Providence, R. I.) (Translation of *Trudy Moskov. Mat. Obšč.*)

Vestnik Leningrad Univ. Math. Vestnik Leningrad University. Mathematics. (Providence, R. I.) (A translation of the mathematics section of *Vestnik Leningrad Univ. Mat. Meh. Astronom.*)

U.S.S.R. Computational Math. and Math. Phys. U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)

Ukrainian Math. J. Ukrainian Mathematical Journal. (New York) (Translation of *Ukrain. Mat. Ž.*)

ERRATA AND ADDENDA

Volume 34

#849: Smirnov, N. V.

The last sentence should be deleted and replaced by: "[The assumption of the lemma on p. 25 should be understood in the sense that $x_{k/n}$, n has a nondegenerate asymptotic distribution for every sequence k/n which satisfies condition (C) of the review. Theorem 5 should be understood in a similar sense.]".

Volume 38

#2331: Loeb, Peter Adolf

The author's name is incorrect. It should be Loeb, Peter Albert.

Index for Volume 38

On page 1297 change the entry for Loeb, Peter Adolf to read Loeb, Peter Albert.

Volume 45

#1136: Daverman, Robert J.; Eaton, William T.

The paging for this article is incorrect. It should be 223-235.

Volume 46

#10099: Bernšteĭn, A. B.; Sidorov, A. A.

The name of the first author is incorrect. It should be Bernšteĭn, A. V.

Index for Volume 46

On page 1845 change the entry for Bernšteĭn, A. B. to read Bernšteĭn, A. V.

Volume 47

#1184: Bernšteĭn, A. B.; Sidorov, A. A.

The name of the first author is incorrect. It should be Bernšteĭn, A. V.

Index for Volume 47

On page 1809 change the entry for Bernšteĭn, A. B. to read Bernšteĭn, A. V. On page 1940 in the entry for Spira, Robert change #7886 to #7887.

Volume 48

#1831: Vizirev, I. S.

The last word of the title is incorrect. It should be "automaton".

#9793: Creangă-Sâmboan, Anca

In the second column in line 9 for "He" read "She".

#2382: Volynec, I. A.

In the heading the italic line is incomplete. It should read "Dokl. Akad. Nauk SSSR 211 (1973), no. 4-5-6, viii."

#10466: Postelnicu, Viorica

In lines 3 and 7 for "he" read "she".

#6420: Gackstatter, Fritz

The third word of the title is incorrect. It should be "Wertverteilungalehre".

Index to Issue no. 5 (November)

On page 1840, column 3 add a reference to Šedivá-Trnková, Věra...8596. On page 1841, column 4 delete the entry for Trnková, Věra.

#6514: Berkovic, L. M.; Rozov, I. H.

The name of the second author is incorrect. It should be Rozov, N. H.

#10950: Fattorosi-Barnaba, Maurizio

The title is incorrect. It should be "O-algebre e loro ideali".

#7910: Математические методы решения экономических задач. Сборник 5. (Russian) [Mathematical methods of solution of economic problems. No. 5]

In the title "Сборник 5." and "No. 5" should be deleted and in the last line of the review delete ", No. 5".

#11122: Ignatenko, V. F.; Leibin, A. S.

In lines 9, 10 and 11 "In addition to the two references cited in the bibliography of the preceding article..." should read "In addition to the two references cited in the bibliography of an earlier article [the authors, same Sb. Vyp. 12 (1972), 57-59; MR 48 #6126] ...".

#8194: Joja, Crizantema

In line 4 for "he" read "she".

#11251: Kuzminov, V. I.; Čerevkin, A. Ju.

The first reference is incorrectly attributed to C. Bănică and the reviewer. It should be attributed to C. Bănică and N. Popescu.

#8197: Marquetty, Antoine

In line 6 for "Scheffer" read "Sheffer".

Index for Volume 48

On page 2373 delete the name Crišov, A. P. and transfer item 650 to a new entry for Grišov, A. P. On page 2390 in the entry for Fattorosi-Barnaba, Maurizio, item 10950, for "O-algebre" read "O-algebre". On page 2398 in the entry for Gackstatter, Fritz, item 6420, the third word should be "Wertverteilungalehre". On page 2526 change the entry for Rozov, I. H. to read Rozov, N. H. On page 2565 change the entry for Trnková, Věra to read "See Šedivá-Trnková, Věra" and transfer item 8596 to a new entry for Šedivá-Trnková, Věra on page 2536. On page 2574 in the entry for Vizirev, I. S., item 1831, the last word of the title should be "automaton". In the Key Index, on page 2603, in the entry for Mathematical methods of solution of economic problems, No. 5 delete "No. 5" from the entry and "No. 5" from item 7910.

#8596: Trnková, Věra; Koubek, Václav

After the name of the first author add [Šedivá-Trnková, Věra].

#9151: Bykov, Ja. V.; Živogljadova, L. V.; Ševcov, E. I.

Lines 5-9 should read "untersucht, wobei $\Delta v(n) = v(n+1) - v(n)/n$ und die Funktionen $a(n)$, $f(n, u, v)$, $F(n, u, v)$ im Gebiet $n = 1, 2, \dots, -\infty < u, v < +\infty$ definiert sind. Weiter wird vorausgesetzt, daß für $n \geq n_0$ und $u, v > 0$, $f(n, u, v) \geq 0$, $F(n, u, v) \geq 0$, $f(n, -u, -v) \leq 0$ und $F(n, -u, -v) \leq 0$ ist."

Volume 49

- #183: **Béla, Rendi**
The name of the author is incorrect. It should be **Rendi, Béla**.
- #3627: **Linke, Ju. È.**
The reviewer's name is incorrectly spelled. It should be **Z. Semadeni**.
- #3869: **Trnková, Věra**
After the name of the author add **[Šedivá-Trnková, Věra]**.
- Index for Issue no. 2 (February)**
On page 858, column 2 add a reference to Šedivá-Trnková, Věra...3869 and on page 859, column 2 delete the entry for Trnková, Věra.
- #5367: **Gončarov, N. S.**
The second argument of the function F^+ in line 7 should be \tilde{r} .
- #7092: **Lehmer, D. H.**
The title is incorrect. It should be **Harry Schultz Vandiver, 1882-1973**.
- #10090: **Kounias, E. G.; Gulati, Bodh Raj**
At the end of the first line " 2^q " should read " $2^{k-(k-q)}$ ".

- #10880: **McLeavey, J. Olexson**
The last reference is incorrect. It should be "R. Kühnau [Math. Nachr. 66 (1975), 269-282]".
- #10893: **Rogculej, Marcel N.**
The name of the author for the second reference is incorrect. He should be "J. Horváth".
- #10933: **Shah, Manilal**
At the end of the integral in line 2 and " dx ".
- #11559: **Mather, John D.**
The author's name is incorrect. It should be **Mather, John N.**

Index for Volume 49

On page 2256 delete the name **Béla, Rendi** and transfer item 183 to a new entry, for **Rendi, Béla**. On page 2344 in the entry for **Lehmer, D. H.**, item 7092, for "1822" read "1882". On page 2356 delete the entry for **Mather, John D.** and transfer item 11559 to the entry for **Mather, John N.** On page 2424 add the entry "Trnková, Věra. See Šedivá-Trnková, Věra." On page 2446 in the Key Index, the entry "Bull. Soc. Math. France, Mémoire 27" is incorrect. It should read "Bull. Soc. Math. France, Mémoire 37".

Volume 50

- #235: **Ponomarev, Paul**
In lines 14, 15 and 16 the sentence "An erroneous statement on p. 308 (a quaternion division algebra has a unique maximal order) has no effect on the results." should be deleted. The reviewer had overlooked the fact that the author had made an assumption that implied the statement in question.
- #1161: **Fujimoto, Atsuo**
The name of the publisher is incorrect. It should be "Study Group of Geometry, Department of Applied Mathematics, College of Liberal Arts and Science, Okayama University, Okayama".
- #3140: **Jotov, Ognjan**
The following is a replacement for the review already in print: Using the induced action of the tangent group $TGL(n; \mathbb{R})$ on the tangent bundle $T(T(\mathcal{Y})(M))$ for a differentiable manifold M , and proving some elementary formulas, the author gives another proof of the well-known theorem on linear connections which asserts that if we are given a set of functions Γ_{ij}^k (the Christoffel symbols) then there is a unique linear connection whose components are the given functions Γ_{ij}^k .
We remark that this proof is very long and confused in comparison to that given in the fundamental book by S. Kobayashi and K. Nomizu [Foundations of differential geometry, Vol. I, Interscience, New York, 1963; MR 27 #2945].
- #3487: **Eichhorn, B. H.**
Line 12 should read "where $K > 0$ and $\sum |d_n| < \infty$, implies that $\lim_{n \rightarrow \infty} D_n = 0 \dots$ ".
- #4279: **Doraczyński, Roman**
In line 4 replace " $(\phi \Leftrightarrow \phi^*)$ " by " $(\phi \longleftrightarrow \phi^*)$ ".
- #4356: **Stanton, R. G.; Kingsley, R. A.**
The reference to the collection at the end of the review is incorrect. It should be MR 50 #3517.
- #4365: **Cook, Roger J.**
In line 12 replace " δ_{mn}^i " by " δ_{mn}^j ".
- #4475: **Gupta, Hansraj**
In line 4 the word "even" should be replaced by "odd".
- #4586: **Friedlanner, Eric M.**
The author's name is incorrectly spelled. It should be **Friedlander, Eric M.**
- #4720: **Gudivok, P. M.**
Lines 7 and 8 should read "...if and only if either G is a p -group or else p is a primitive root modulo the p' part of the exponent of G ".
- #4749: **Kovács, L. G.**
In line 5 replace " \mathfrak{A} " by " \mathfrak{X} ".
- #4860: **Gorlenko, S. V.**
In line 2 the name "Lebesgue" should be replaced by "Borel".
- #5004: **Skoda, Henri**
In the last line replace " $E_c \subset X \subset E_c$ " by " $E_c \subset X \subseteq E_c$ ".
- #5158: **Ugowski, Henryk**
In line 8 delete " $\in D$ ". In lines 10 and 11 replace " $u_x/x, t$ " by " $u_x/x, t$ ". In line 16 replace " $v_{xx}/x, t, v_t/v, t$ " with " $v_{xx}/x, t, v_t/v, t$ ".
- #5265: **Sokolenko, O. I.**
Line 15 should read "exists a point $z \dots$ ".
- #5349: **Avdonin, S. A.**
The parenthetical remark at the end of the first paragraph should be deleted.
- #5416: **Walsh, Bertram**
In the second line of the second paragraph, replace " $E' \otimes_{\pi} E_i$ " by " $E' \otimes_{\pi} E$ ".
- #5457: **Bengel, Gunter**
In the title and in the first line of the review replace " D_{lp}' " by " D_{lp} ".
- #5720: **West, J. E.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #3800.
- #5777: **Montesinos, José M. [Montesinos Amilibia, José M.]**
The bracketed form of the author's name is incorrectly spelled. It should be **Montesinos Amilibia, José M.**
- #5893: **Kolčín, V. F.; Čistjakov, V. P.**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #12616.
- #6423: **Poon, P. T. Y.; Ueno, S. [Ueno, Sueo]**
The reviewer's name is incorrectly spelled. It should be **W. H. Schoendorf**.
- #6447: **Ackoff, Russell L.; Sasieni, Maurice W.**
The name of the publisher is incorrectly spelled. It should be "Etas Kompass".
- #6551: **Genealogical Mathematics**
The name of the publisher is incorrectly spelled. It should be "Mouton".
- #7154: **Oort, Frans**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #10689.
- #7800: **Boutet de Monvel, L.; Geymonat, G.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #7065.
- #8002: **Șerban, Doina [Șerba-Tofan, Doina]**
The bracketed form of the author's name is incorrectly spelled. It should be **Șerban-Tofan, Doina**.

- #8062: **Pavec, M. R.**
The reference to the collection at the end of the review is incorrect. It should be MR 50 #5409.
- #8157: **Bragg, L. R.**
In line 4 " $u(0_+) = \emptyset$ " should be replaced by " $u(0_+) = \phi$ ".
- #8163: **Dudučava, R. V.**
The reference to the English translation at the end of the review is incorrect. It should read "Soviet Math. Dokl. 15 (1974), no. 5, 1302-1306 (1975)".
- #8171: **Pal'cev, B. V.**
The reference to the English translation at the end of the review is incorrect. It should read "Soviet Math. Dokl. 15 (1974), no. 5, 1243-1247 (1975)".
- #8172: **Zaanen, A. C.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #11181.
- #8302: **Goldberg, M.**
After the name of the author add [Goldberg, Michael].
- #8503: **Inasaridze, H. N.**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #2693.
- #8659: **Szász, Domokos**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #10617.
- #8693: **Serfling, R. J.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #1630.
- #8792: **Huber, Peter J.**
In the last line of the first column the word "maximum" should be replaced by "minimax".
- #8984: **Huta, A.**
The page number of the article under review is incorrect. It should be T221.
- #9133: **v. Blumenthal, N.; Bock, H.-M.; Drechler, J.; Erbe, H.; Giencke, E.; Hieronimus, K.; Kalzidu, D.; Krause, G.; Knothe, K.; Lehmann, D.; Petersen, J.; Rinneberg, Chr.**
The name of the publisher is incorrect. It should be "Abteilung Publikationen, Universitätsbibliothek, Technische Universität Berlin".
- #9184: **Sidenko, N. R. [Sidenko, M. R.]**
In the fourth line of the second paragraph for " $(\sigma A_p)/\lambda_i$ " read " $(\sigma A/\lambda_p)$ ".
- #9638: **Mills, W. H.**
The last reference in the first paragraph is incorrect. The paging should be 138-166.
- #9868: **Lindner, Martin**
In the penultimate line, for " $y \mapsto y + tx \mapsto x$ " read " $y \mapsto y + t, x \mapsto x$ ".
- #9972: **Bruns, Winfried; Vetter, Udo**
This review was misplaced in the Mathematical Reviews section 16, "Associative Rings and Algebras". It should be in section 13, "Commutative Rings and Algebras". The primary classification should be 13C05 and the secondary classification should be 35B05.
- #10040: **Seitz, Gary M.**
The reference to the collection at the end of the review is incorrect. It should be MR 50 #460.
- #10108: **Pandya, Gautam N.**
In line 6 for "cardinality" read "cardinality".
- #10231: **Goel, R. M.; Singh, V.**
In line 4 " $\sum_n^2 = 2$ " should be " $\sum_n^\infty = 2$ ". In line 9 " $2/(n-1)$ " should be " $2\alpha/(n-1)$ ". In line 13 " $A_5(\alpha) = 2\alpha/3$ if $0 < \alpha \leq \alpha_1$ " should be " $A_5(\alpha) = \alpha/2$ if $0 < \alpha \leq \alpha_1$ ".
- #10236: **Libera, Richard**
In the tenth line of the second column in the second summation index replace " r " by " j ".
- #10243: **Lehner, Joseph**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #3089.
- #10512: **Lerner, M. E.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #7061.
- #10555: **Abdrahmanov, M. A.**
In line 2 " $u^1(x, y, t)$ " should read " $u(x, y, t)$ ". In line 7 " $v_x|_x = -0 = v_x|_x = +0$ " should read " $u_x|_x = -0 = v_x|_x = +0$ ".
- #11153: **Blatter, Jörg**
The reference to the collection at the end of the review is incorrect. It should be MR 50 #1792.
- #11299: **Kawakubo, Katsuo; Raymond, Frank**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #7281.
- #11317: **Mañé, Ricardo**
In the first line for " C^n -generic" read " C^r -generic".
- #11321: **McGehee, Richard; Meyer, Kenneth**
In the second line of the second column "cost r " should be replaced by "cos r ".
- #11459: **Erickson, K. Bruce; Kestern, Harry**
The name of the second author is incorrectly spelled. It should be Kesten, Harry.
- #11521: **Harrison, J. Michael**
In line 18 " $(a(r) - b_k(r))/\alpha(r) + b_k$ " should be replaced by " $(a(r) - b_k(r))/\alpha(r) + c_k$ ". In line 20 " $c_k(a - c_k)/\alpha_k$ " should be replaced by " $(c_k(a - b_k)/\alpha_k)$ ".
- #11603: **Höglund, Thomas**
In line 26 replace " z " in the exponent by " ζ ".
- #11680: **Holgate, P.**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #10008.
- #11826: **Boikov, I. V.**
In the fifth line of the review replace " α " by " d ".
- #11869: **Rozenberg, G.; Lee, K. P.**
Although there are two authors to this paper the review was written in the singular and should be corrected.
- #12030: **Syamala Devi, V. [V. Symala Devi]**
The bracketed form of the author's name is incorrect. It should be V. Symala Devi.
- #13090: **Goldberg M.; Zwas, G.**
After the name of the first author add [Goldberg, Moshe].
- #13144: **Rozenfel'd, B. A.; Kolokol'ceva, I. I.; Rudenko, A. B.**
In line 2 " $\{x \in A \mid x^c = -x\}$ " should read " $\{x \in A \mid x^u = -x\}$ ".
- #14221: **Rusek, Kamil**
The last reference is incorrect. It should be "Ark. Mat. 13 (1975), no. 1, 79-89".
- #14403: **MacBain, John**
In the last sentence of the review for "local" read "alternative".
- #14421: **Kalinin, A. I.**
The paging for this article is incorrectly given. It should be "7-10, 94".
- #14633: **Scarpato, R.**
In the first line for "14692" read "14632".
- #14823: **Petrie, Ted**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #3656c.
- #15149: **Kraemer, Helena Chmura**
The reference in the last line is incorrect. It should be "J. 70 (1975), 494".

Volume 50 (cont.)

- #15274: **Mihal'ova, N. V.; Čirkov, M. K.**
The reference to the collection at the end of the review is incorrect. It should be MR 47 #9874.
- #15352: **Sigurdsson, S.**
The reference to the collection at the end of the review is incorrect. It should be MR 48 #10031.
- #15388: **Kikuchi, Fumio**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #10213.
- #15403: **Šokamolov, I.**
In line 4 remove the two solidi.

- #15863: Математические методы решения экономических задач. Сборник 6. (Russian) [Mathematical methods of solution of economic problems. No. 6]
In the title delete "Сборник 6." and "No. 6" and in the last line of the review delete ", No. 6".

Index for Volume 50

On page 2282 delete the entry for **Goldberg, M.** transferring item 8302 to a new entry for **Goldberg, Michael** and item 13090 to a new entry for **Goldberg, Moshe**. In the Key Index, on page 2463, delete the entry for **Mathematical methods of solution of economic problems, No. 6** and in item 15863 of this entry delete "No. 6." and transfer the item to the entry for **Mathematical methods for the solution of economic problems**.

Volume 51

- #101: **Dekker, J. C. E.; Ellentuck, E.**
In line 4 replace " $\{f(xb, \dots, x_n)\}$ " by " $\{f(x_1, \dots, x_n)\}$ ".
- #104: **Kfoury, A. J.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #2192.
- #123: **Surma, Stanisław J.**
The reviewer's name is incorrect. It should be *Flavio Previale*.
- #137: **Jensen, Anton**
At the end of the review add the following paragraph. {For the entire collection see MR 48 #1871.}
- #203: **Hval, V. [Chvá, Vilmaro]**
The bracketed form of the author's name is incorrect. It should be [Chvá, Vilmaro].
- #371: **Contes, John**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #4913.
- #644: **Trnková, V. [Šediva-Trnková, Věra]; Reiterman, J.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #3800.
- #656: **Problem section.**
The reference to the collection at the end of the review is incorrect. It should be MR 49 #9054.
- #696: **Gallian, Joseph A.**
In line 11 and 12 for " $|L:LP| \leq p^{p-2}(r \geq 1)$ and $p^2 \leq |G:L| \leq p^{2+p}$ " read " $|L:LP| \leq p^{p-1}(r \geq 1)$ and $p^2 \leq |G:L| \leq p^{2+p}$ ". In line -3 for " p^2 " read " p^r " and in line -2 for " $p^3 \leq p^2 \leq L$ " read " $p^3 \leq p^r < L$ ".
- #878: **Kulshrestha, P. K.**
In the third line after the closing bracket "1" should be removed.
- #921: **El Zein, Fouad**
In line 9 " K_X " should read " K_X ".
- #975: **Lopatin, A. K. [Lopatín, O. K.]**
The reference to the collection at the end of the review is incorrect. It should be MR 50 #7661.
- #976: **Olefinik, S. G.**
The reference to the collection at the end of the review is incorrect. It should be MR 50 #7661.
- #1119: **Čekala, Sylwín**
In the eighth line of the second column on page 156, " $\mathcal{N}_{\delta}^{(k)}$ " should read " $\mathcal{N}_{\gamma}^{(k)}$ ".

- #1167: **Guenther, Ronald B.**
In the fourth line "as" should be replaced by "has".
- #1330: **Horváth, Jean [Horváth, John]**
In the second paragraph of the title "(Univ. de Bordeaux, 1972)" should be replaced by "(Univ. de Bordeaux, 1973)".
- #1499: **Dunn, J. C.**
In line -8 "(4)" should be replaced by "(+)".
- #1569: **Gerhardt, Claus**
In line 2 " \mathcal{L} " should twice be replaced by " \mathcal{L} ".
- #1624: **Švec, Alois**
In the title "conjugage" should be replaced by "conjugate".
- #1735: **Rudin, M. E.**
The word "in" should be deleted from the title.
- #7755: **Masunaga, Yoshifumi; Noguchi, Shoichi; Oizumi, Jiro**
After the name of the third author add [Oizumi, Juro].
- #8673: **Strube, Sin Phing Moo**
In the seventh line of the last paragraph " $O(n^{-1/5})$ " should read " $O(n^{1/5})$ ".
- #8837: **Kwak, Hyo Chul**
The review should be corrected to read: "Using rather unconventional terminology, the author proves some known results."
- #13408: **Antypko, I. I.**
This review is out of subject classification order. It belongs between MR 51 #13427 and MR 51 #13428.
- #13409: **Mešerjakova, G. P.**
This review is out of subject classification order. It belongs between MR 51 #13439 and MR 51 #13440.
- #13410: **Fabes, E. B.; Jodeit, M., Jr.**
This review is out of subject classification order. It belongs between MR 51 #13457 and MR 51 #13458.
- #13411: **Reed, Michael C.**
This review is out of subject classification order. It belongs between MR 51 #13468 and MR 51 #13469.
- #14258: **Greenberg, Irwin**
This review is out of subject classification order. It belongs between MR 51 #14306 and MR 51 #14307.
- #14433: **Arnold, Barry C.; Meedem, Glen**
This review is out of subject classification order. It belongs between MR 51 #14337 and MR 51 #14338.

TRANSLITERATION OF CYRILLIC

Russian Letter Cap. Ital.	Mathematical Reviews; Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А а	a	a	a	a	a	a	a
Б б	b	b	b	b	b	b	b
В в	v	v	v	v	v	v	v
Г г	g	g	g	g	g	g	g
Д д	d	d	d	d	d	d	d
Е е	e	e	e	e	e	e	é
Ё ё	e	ē	e	ē	ē	ē	ē
Ж ж	zh	zh	zh	zh	zh	ž	ž
З з	z	z	z	z	z	z	z
И и	i	i	i	i	i	i	i
Й й	ī	j	i	ī	ī	j	j
К к	k	k	k	k	k	k	k
Л л	l	l	l	l	l	l	l
М м	m	m	m	m	m	m	m
Н н	n	n	n	n	n	n	n
О о	o	o	o	o	o	o	o
П п	p	p	p	p	p	p	p
Р р	r	r	r	r	r	r	r
С с	s	s	s	s	s	s	s
Т т	t	t	t	t	t	t	t
У у	u	u	u	u	u	u	u
Ф ф	f	f	f	f	f	f	f
Х х	h	kh	kh	kh	kh	kh	h
Ц ц	c	c	ts	ts	ts	c	c
Ч ч	č	ch	ch	ch	ch	č	č
Ш ш	š	sh	sh	sh	sh	š	š
Щ щ	šč	shch	shch	shch	shch	šč	šč
Ъ ъ	"	"	"	"	"	"	"
Ы ы	y	y	y	y	y	y	y
Ь ь	'	'	'	'	'	'	'
Э э	è	e	e	é	é	è	e
Ю ю	ju	ju	yu	yu	iū	ju	ú
Я я	ja	ja	ya	ya	īa	ja	á

Other *Mathematical Reviews* conventions are as follows:

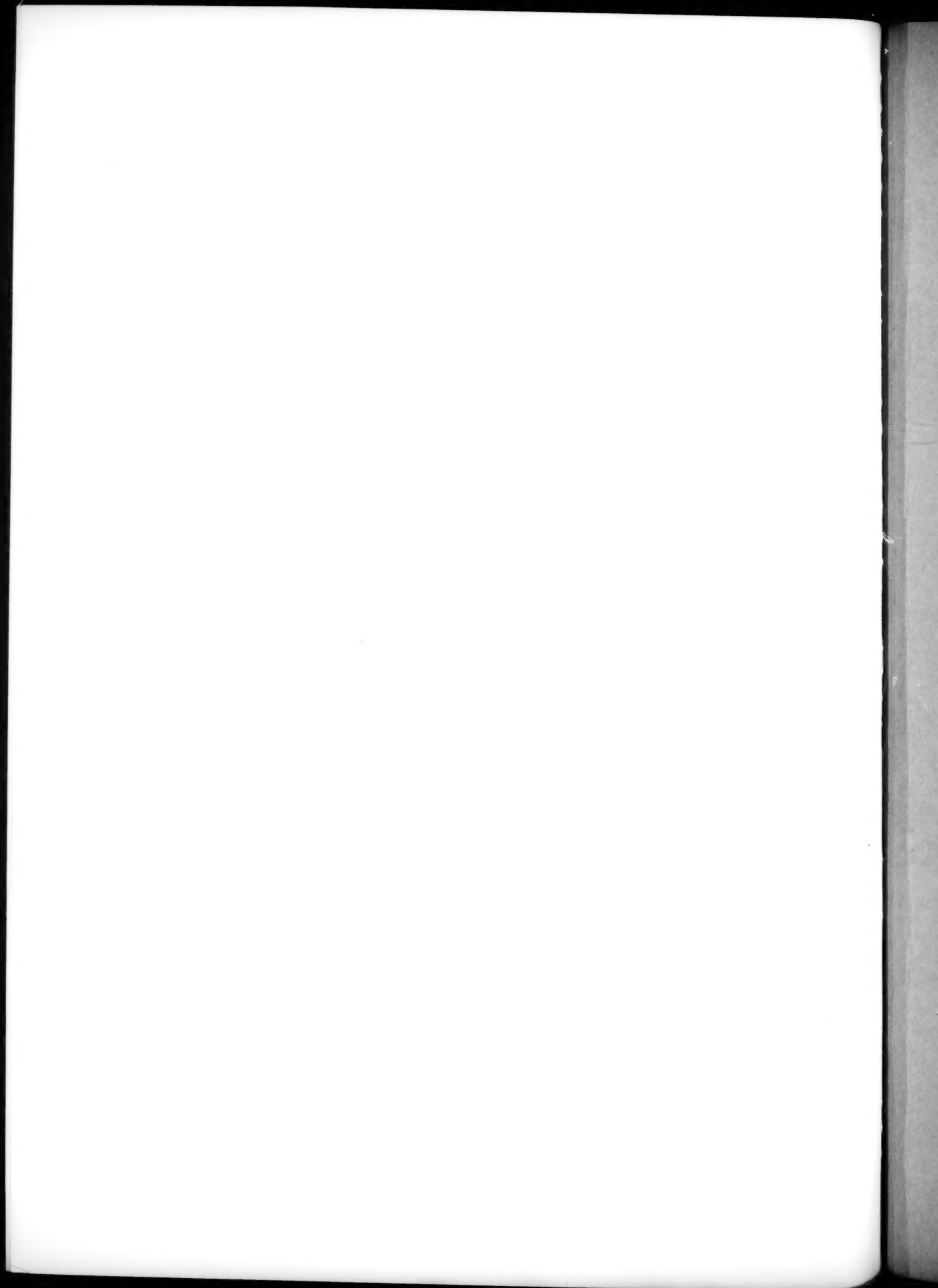
The Ukrainian І, і are transliterated I, i, respectively.

The Ukrainian І, і are reproduced without change.

The Ukrainian Є, є are transliterated Ē, ē.

The Serbian Ъ, ъ are transliterated Đ, đ, respectively.

The Serbian Ъ, ъ are transliterated Č, č; the Serbian Љ, љ are transliterated Dž, dž.



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